CDX-601/636

SERVICE MANUAL

Ver 1.1 2000. 08

US Model
Canadian Model
CDX-601/636
AEP Model
UK Model
CDX-601
E Model
CDX-636

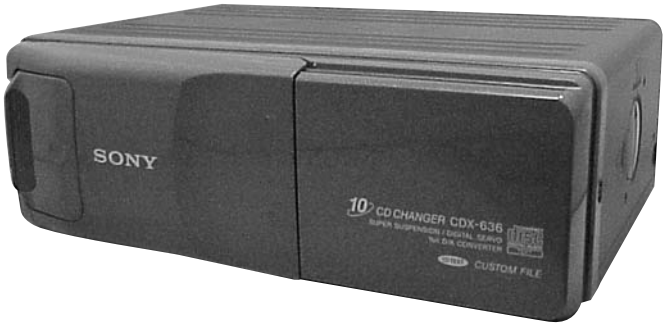


Photo: CDX-636

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-251A-137
Optical Pick-up Name	KSS-720A/K1NP

SPECIFICATIONS

System Compact disc digitalaudio system
Frequency response
10 – 20,000 Hz
Wow and flutter Below the measurable limit
Signal-to-noise ratio
94 dB
Outputs BUS control output (8 pins)
Analog audio output (RCA pin)
Current drain 800 mA (during CD playback)
800 mA (during loading or ejecting a disc)
Operating temperature
–10°C to +55°C
Dimensions Approx. 262 × 90 × 181.5 mm
(w / h / d) not incl. projecting parts and controls
Mass Approx. 2.1 kg
Power requirement
12 V DC car battery (negative ground)
Supplied accessories
Disc magazine (1)
Parts for installation and connections
(1 set)

Design and specifications are subject to change without notice.

COMPACT DISC CHANGER

SONY®

TABLE OF CONTENTS

1. SERVICING NOTES 3

2. GENERAL 3
Installation 4
Connections 4

3. DISASSEMBLY 5

4. MECHANISM DECK ASSEMBLY 11

5. MECHANICAL ADJUSTMENT 13

6. ELECTRICAL CHECK 14

7. DIAGRAMS
7-1. Block Diagram – RF SERVO/ DA CONVERTER Section – 15
7-2. Block Diagram – BUS CONTROL/ POWER SUPPLY Section – 16
7-3. Note for Printed Wiring Boards and Schematic Diagrams 17
7-4. Printed Wiring Boards – RF Section – 18
7-5. Schematic Diagram – RF Section – 19
7-6. Printed Wiring Boards – MAIN Section (1/2) – 20
7-7. Printed Wiring Board – MAIN Section (2/2) – 21
7-8. Schematic Diagram – MAIN Section (1/2) – 22
7-9. Schematic Diagram – MAIN Section (2/2) – 23
7-10. Printed Wiring Boards – JACK/SWITCH Section – 24
7-11. Schematic Diagram – JACK/SWITCH Section – 24
7-12. IC Pin Function Description 29

8. EXPLODED VIEWS 32

9. ELECTRICAL PARTS LIST 37

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

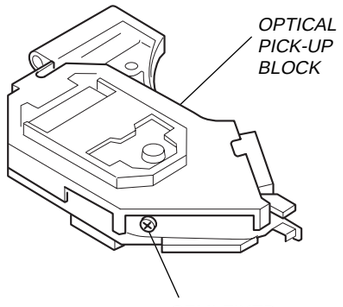
Laser Diode Properties
- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output Power: less than 44.6 µW*

  * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

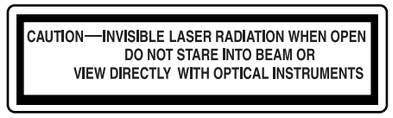
US/Canadian model:

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.



AEP/UK model:

This product is classified as a CLASS 1 LASER PRODUCT.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



This label is located on the drive unit's internal chassis.

When replacing the chassis (U.S) sub assy of mechanism deck which have the "CAUTION LABEL" attached, please be sure to put a new CAUTION LABEL (3-223-913-11) to the chassis (U.S) sub assy.

Flexible Circuit Board Repairing
- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

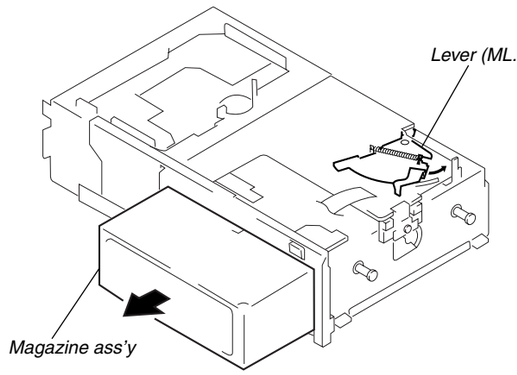
Notes on chip component replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

DISC MAGAZINE GETTING OUT PROCEDURE ON THE POWER SUPPLY IS OFF

Remove the COVER (LOWER T) beforehand

1) Press the lever (ML.S) assy to arrow direction.
2) Removal the magazine assy.

Note: Take out the magazine only when the tray is completely within the magazine. If the disk or tray is sticking out, turn on the power and eject the magazine.



SECTION 2
GENERAL

This section is extracted from instruction manual.

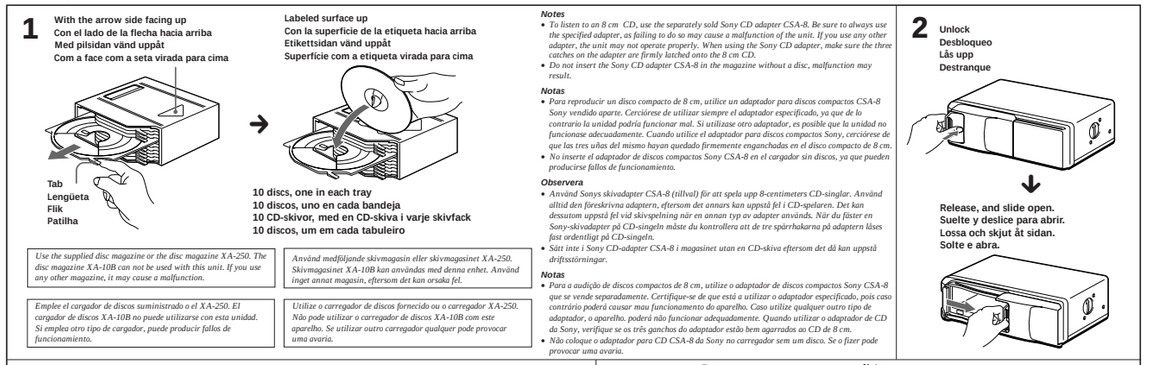
Precautions
Moisture condensation
On a rainy day or in a very damp area, moisture may condense on the lenses inside the unit. Should this occur, the unit will not operate properly. In this case, **remove the disc magazine and wait for about an hour until the moisture has evaporated.**

Precauciones
Condensación de humedad
En los días lluviosos o en zonas muy húmedas, puede condensarse humedad en las lentes del interior de la unidad. Si esto ocurre, ésta no funcionará correctamente. En este caso, **extraiga el cargador de discos y espere durante una hora aproximadamente hasta que la humedad se evapore.**

Säkerhetsföreskrifter
Att observera angående fuktbildning
Om det regnar eller är mycket fuktigt ute kan fukt kondenseras på linserna inuti enheten. När detta sker fungerar inte enheten som den ska. **Ta då bort skivmagasinet och vänta i ungefär en timme tills fukten har avdunstat.**

Precauções
Condensação de humidade
Num dia chuvoso ou numa zona muito húmida, pode ocorrer uma condensação de humidade nas lentes do interior do aparelho o que provocará um funcionamento deficiente do aparelho. Se isso acontecer, **retire o carregador de discos e aguarde cerca de uma hora até que a humidade se evapore.**

Inserting a disc / Inserción de discos / Sätta i en CD-skiva / Introduzir um disco


1
With the arrow side facing up
Con el lado de la flecha hacia arriba
Med pilsidan vänd uppåt
Com a face com a seta virada para cima
Tab
Lengüeta
Flik
Patilha
Labeled surface up
Con la superficie de la etiqueta hacia arriba
Etikettsidan vänd uppåt
Superfície com a etiqueta virada para cima
10 discs, one in each tray
10 discos, uno en cada bandeja
10 CD-skivor, med en CD-skiva i varje skivfack
10 discos, um em cada tabuleiro
2
Unlock
Desbloqueo
Lås upp
Destranque
Release, and slide open.
Suelte y deslice para abrir.
Lossa och skjut åt sidan.
Solte e abra.
3
Disc magazine
Cargador de discos
Skivmagasin
Carregador de discos
To remove
Extracción
Urtagning
Para retirar
If the disc magazine does not lock properly
Take out the magazine, and after pressing the ⏏ (EJECT) button, re-insert it.
Si el cargador de discos no encaja adecuadamente.
Extraiga el cargador y, después de presionar el botón ⏏ (EJECT), vuelva a insertarlo.
När skivmagasinet inte kommer på plats ordentligt
Ta ut skivmagasinet. Tryck därefter på ⏏ (EJECT) och sätt i det igen.
Se o carregador de discos não fechar bem
Retire o carregador, carregue na tecla ⏏ (EJECT) e volte a introduzi-lo.
⏏ (EJECT)
4
Use the unit with the door closed
Otherwise, foreign matter may enter the unit and contaminate the lenses inside the changer.
Emplee la unidad con la puerta cerrada.
De lo contrario podrían entrar objetos extraños y contaminar las lentes del interior del cambiador.
Kom ihåg att stänga locket till skivmagasinsfacket
För att förhindra främmande föremål från att tränga in i CD-växlare och smutsa ned de inbyggda linserna.
Utilize o aparelho com a porta fechada
Caso contrário, objectos estranhos poderão penetrar no aparelho e sujar as lentes no interior do permutador.

Notes
- *To listen to an 8 cm CD, use the separately sold Sony CD adapter CSA-8. Be sure to always use the specified adapter, as failing to do so may cause a malfunction of the unit. If you use any other adapter, the unit may not operate properly. When using the Sony CD adapter, make sure the three catches on the adapter are firmly latched onto the 8 cm CD.*
- *Do not insert the Sony CD adapter CSA-8 in the magazine without a disc, malfunction may result.*

Use the supplied disc magazine or the disc magazine XA-250. The disc magazine XA-10B can not be used with this unit. If you use any other magazine, it may cause a malfunction.

Notas
- *Para reproducir un disco compacto de 8 cm, utilice un adaptador para discos compactos CSA-8 Sony vendido aparte. Cerciórese de utilizar siempre el adaptador especificado, ya que de lo contrario la unidad podría funcionar mal. Si utilizase otro adaptador, es posible que la unidad no funcionase adecuadamente. Cuando utilice el adaptador para discos compactos Sony, cerciórese de que las tres uñas del mismo hayan quedado firmemente enganchadas en el disco compacto de 8 cm.*
- *No inserte el adaptador de discos compactos Sony CSA-8 en el cargador sin discos, ya que pueden producirse fallos de funcionamiento.*

Använd medföljande skivmagasin eller skivmagasinet XA-250. Skivmagasinet XA-10B kan användas med denna enhet. Använd inget annat magasin, eftersom det kan orsaka fel.

Observera
- *Använd Sonys skivadapter CSA-8 (tillval) för att spela upp 8-centimeters CD-singlar. Använd alltid den föreskrivna adaptern, eftersom det annars kan uppstå fel i CD-spelaren. Det kan dessutom uppstå fel vid skivspelning när en annan typ av adapter används. När du fäster en Sony-skivadapter på CD-singeln måste du kontrollera att de tre spärrhakarna på adaptern låses fast ordentligt på CD-singeln.*
- *Sätt inte i Sony CD-adapter CSA-8 i magasinet utan en CD-skiva eftersom det då kan uppstå driftsstörningar.*

Emplee el cargador de discos suministrado o el XA-250. El cargador de discos XA-10B no puede utilizarse con esta unidad. Si emplea otro tipo de cargador, puede producir fallos de funcionamiento.

Utilize o carregador de discos fornecido ou o carregador XA-250. Não pode utilizar o carregador de discos XA-10B com este aparelho. Se utilizar outro carregador qualquer pode provocar uma avaria.

Notas
- *Para a audição de discos compactos de 8 cm, utilize o adaptador de discos compactos Sony CSA-8 que se vende separadamente. Certifique-se de que está a utilizar o adaptador especificado, pois caso contrário poderá causar mau funcionamento do aparelho. Caso utilize qualquer outro tipo de adaptador, o aparelho. poderá não funcionar adequadamente. Quando utilizar o adaptador de CD da Sony, verifique se os três ganchos do adaptador estão bem agarrados ao CD de 8 cm.*
- *Não coloque o adaptador para CD CSA-8 da Sony no carregador sem um disco. Se o fizer pode provocar uma avaria.*

Note
When a disc magazine is inserted into the CD changer or the reset button of the connected car audio is pressed, the unit will automatically be activated and read the information on the CDs. When the information on all the CDs in the disc magazine has been read, the unit will automatically stop operation.

Nota
Cuando inserte un cargador de discos en el cambiador de discos compactos o presione el botón de reposición del sistema de audio del automóvil, la unidad se activará automáticamente y leerá la información de los discos compactos. Cuando se haya leído la información de todos los discos compactos del cargador de discos, la unidad se parará automáticamente.

Obsevera
När du skjuter in ett skivmagasin i CD-växlaren eller trycker på återställningsknappen på den anslutna bilstereon kommer växlaren att automatiskt aktiveras och läsa informationen på CD-skivorna, och slås sedan automatiskt av igen.

Nota
Quando se introduz um carregador de discos no permutador Cd ou se carrega na tecla de reinicialização do autorádio ligado, o aparelho é automaticamente activado e reproduz os CDs. Terminada a leitura de todos os CDs do carregador, o aparelho pára automaticamente.

Notes on the disc magazine / Notas sobre el cargador de discos / Att observera angående skivmagasinet / Notas sobre o carregador de discos

- Do not leave the disc magazine in locations with high temperatures and high humidity such as on a car dashboard or in the rear window where the disc magazine will be subjected to direct sunlight.
- Do not place more than one disc at a time onto one tray, otherwise the changer and the discs may be damaged.
- Do not drop the disc magazine or subject it to a violent shock.

- No deje el cargador de discos en lugares con temperatura y humedad altas, como en el salpicadero o en la bandeja trasera del automóvil, donde podría quedar sometido a la luz solar directa.
- No inserte más de un disco en una bandeja de una vez, ya que en caso contrario el cambiador y los discos pueden dañarse.
- No deje caer el cargador de discos ni lo someta a golpes violentos.

- Lämna inte skivmagasinet på en plats där det utsätts för extrem värme och/eller fukt, som t ex ovanpå instrumentbrädan eller på hatthyllan längst bak i bilen, eftersom den då kan ligga i direkt solljus.
- Sätt inte i mer än en CD-skiva i taget i varje skivfack, annars kan CD-växlaren och CD-skivorna skadas.
- Tappa inte skivmagasinet. Utsätt det inte heller för stötar.

- Não deixe o carregador de discos em locais demasiado quentes ou húmidos como, por exemplo, no tablier ou na prateleira traseira do automóvel, onde estará sujeito à incidência directa dos raios solares.
- Não coloque mais do que um disco ao mesmo tempo em cada um dos tabuleiros pois, se o fizer, pode danificar tanto o carregador como os discos.
- Não deixe cair, nem sujeite o carregador a choques violentos.

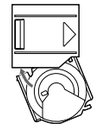
When the tray comes out / När skivfacket kommer ut / Se o tabuleiro sair para fora do carregador

Normally, the trays will not come out of the magazine. However, if they are pulled out of the magazine, it is easy to re-insert them.

Normalmente, las bandejas no se salen del cargador. No obstante, si esto ocurre, pueden volver a insertarse con facilidad.

Vanligen kommer inte skivfacken ut ur magasinet. Om de emellertid skulle råka tas ur magasinet är det enkelt att sätta i dem igen.

Normalmente, os tabuleiros não saiem do carregador. No entanto, se os puxar para fora do carregador, é fácil voltar a colocá-los.



With the cut-away portion of the tray facing you, insert the right corner of the tray in the slot, then push in the left corner until it clicks.

Note
Do not insert the tray upside down or in the wrong direction.

Con la parte de corte de la bandeja hacia afuera, inserte la esquina derecha de dicha bandeja en la ranura y, a continuación, ejerza presión en la esquina izquierda hasta oír un chasquido.

Nota
No inserte la bandeja al revés o en la dirección incorrecta.

Håll skivfacket med hålet mot dig och skjut in dess högra hörn i springan i magasinet. Tryck sedan in det vänstra hörnet tills ett klick hörs.

Obsevera
Sätt inte i skivfacket upp och ner eller åt fel håll.

Com a parte cortada do tabuleiro voltada para si, introduza o canto direito do tabuleiro na ranhura e, em seguida, empurre o canto esquerdo até ouvir um clique.

Nota
Não coloque o tabuleiro ao contrário ou na direcção errada.

Notes on compact discs / Notas sobre los discos compactos / Att observera angående CD-skivor / Notas sobre os discos compactos

A dirty or defective disc may cause sound drop-outs during playback. To enjoy optimum sound, handle the disc as follows.
- **Handle the disc by its edge, and to keep the disc clean, do not touch the unlabeled surface. (fig. A)**
- **Do not stick paper or tape on the disc. (fig. B)**
- **Do not expose discs to direct sunlight or heat sources such as hot air-ducts. Do not leave discs in a car parked in direct sunlight where there can be a considerable rise in the temperature inside the car. (fig. C)**
- **Before playing, clean the discs with an optional cleaning cloth. Wipe each disc in the direction of the arrows. (fig. D)**
  Do not use solvents such as benzine, thinner, commercially available cleaners or antistatic spray intended for analog discs.

Notes on discs
If you use the discs explained below, the sticky residue can cause the CD to stop spinning and may cause malfunction or ruin your discs.

Do not use second-hand or rental CDs that have a sticky residue on the surface (for example from peeled-off stickers or from ink, or glue leaking from under the stickers).
- **There are paste residue. Ink is sticky. (fig. E)**
  Do not use rental CDs with old labels that are beginning to peel off.
- **Stickers that are beginning to peel away, leaving a sticky residue. (fig. F)**
  Do not use your CDs with labels or stickers attached.
- **Labels are attached. (fig. G)**

Un disco sucio o defectuoso causará la pérdida de sonido durante la reproducción. Para obtener un óptimo nivel de sonido, tome los discos como se indica a continuación.
- **Maneje el disco por los bordes. Para mantenerlo limpio, no toque la superficie sin etiqueta. (fig. A)**
- **No adhiera papeles ni cinta sobre el disco. (fig. B)**
- **No exponga los discos a la luz solar directa ni a fuentes térmicas, como conductos de aire caliente. No deje los discos en un automóvil aparcado bajo la luz solar directa donde pueda producirse un considerable aumento de temperatura en el interior de dicho automóvil. (fig. C)**
- **Antes de reproducir un disco, límpielo con un paño limpiador opcional. Hágalo en el sentido de las flechas. (fig. D)**
  No emplee disolventes tales como bencina, diluyente de pintura, ni limpiadores o aerosoles destinados a discos analógicos.

Notas sobre los discos
Si emplea los discos descritos a continuación, el residuo adherente puede causar que el CD deje de girar y producir fallos de funcionamiento o dañar los discos.

No utilice discos compactos de segunda mano o de alquiler que tengan residuos adherentes en la superficie (por ejemplo, de adhesivos despegados o tinta, o de restos de pegamento de los adhesivos).
- **Residuos adherentes. Tinta adherente. (fig. E)**
  No utilice discos compactos de alquiler con etiquetas viejas que estén comenzando a despegarse.
- **Adhesivos que empiezan a despegarse, dejando un residuo adherente. (fig. F)**
  No emplee discos compactos con etiquetas o adhesivos fijados.
- **Etiquetas adheridas. (fig. G)**

En smutsig eller skadad CD-skiva kan orsaka ljudbortfall vid uppspelning. För att undvika detta hanterar du CD-skivan enligt följande.
- **Undvik att smutsa ned CD-skivan genom att hålla i den endast i kanten och undvika att vidröra den oskyddade ytan. (ill. A)**
- **Klistra inte fast etiketter eller dylikt på CD-skivan. (ill. B)**
- **Utsätt inte CD-skivor för direkt solljus eller värmekällor som varmluftsventiler. Lämna inte CD-skivor i bilen om den står parkerad i direkt solljus, eftersom kraftiga temperaturstegringarär kan skada skivorna. (ill. C)**
- **Torka CD-skivan med en rengöringsduk (medföljer inte) innan du spelar den. Torka från mitten ut mot kanten (i pilarnas riktning). (ill. D)**
  Använd inte lösningsmedel som bensin och thinner, eller rengöringsmedel och antistatspray avsedda för vinylskivor.

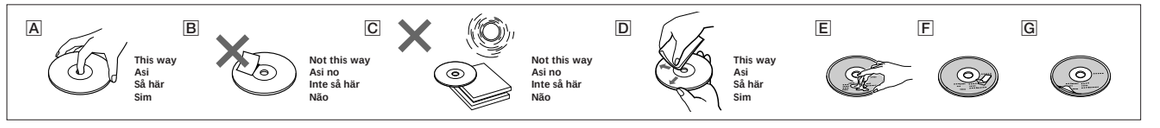
Om diskar
Om du använder diskar av det slag som beskrivs nedan, kan limresterna göra så att CD-skivan slutar rotera och du kan få driftstörningar och skivorna förstörda.

Använd aldrig CD-skivor som du köpt eller hyrt begagnade om de har limrester på ytan (t.ex. från klistermärken eller etiketter) eller rester av bläck eller lim som krypt fram längs etikettkanterna.
- **Limrester och bläck som kan kladda av sig. (ill. E)**
  Använd aldrig hyrda CD-skivor med gamla etiketter som är på väg att lossna.
- **Etiketter som är på väg att lossna och efterlämnar kladdiga rester. (ill. F)**
  Använd inte CD-skivor med klistermärken eller etiketter.
- **Etiketter som fästs på skivan. (ill. G)**

Discos sujos ou defeituosos podem causar perdas de som durante a leitura. Para obter de um som excelente, pegue nos discos como ilustrado a seguir.
- **Para não sujar o disco pegue-lhe pelas bordas e não toque no lado que não tem etiqueta. (fig. A)**
- **Não cole papel ou fita adesiva no disco. (fig. B)**
- **Não exponha os discos à luz solar directa ou a fontes de calor como condutas de ar quente. Não deixe os discos dentro de um automóvel estacionado ao sol pois pode ocorrer um aumento considerável de temperatura no seu interior. (fig. C)**
- **Antes de iniciar a reprodução, limpe os discos com um pano de limpeza (venda avulsa). Limpe o disco no sentido indicado pelas setas. (fig. D)**
  Não utilize solventes tais como benzina, diluentes, produtos de limpeza disponíveis no mercado ou aerosóis anti-estáticos destinados a discos de gravação analógica.

Notas sobre os discos
Se utilizar os discos descritos abaixo, o resíduo pegajoso pode fazer parar a rotação do CD e provocar uma avaria ou danificar os discos.

Não utilize CDs em segunda mão ou alugados que tenham um resíduo pegajoso na superfície (por exemplo, restos de etiquetas retiradas ou de tinta ou cola a sair de etiquetas ainda existentes).
- **Há resíduos de cola. A tinta está pegajosa. (fig. E)**
  Não utilize CDs alugados com etiquetas velhas já meio descoladas.
- **As etiquetas meio descoladas deixam resíduos pegajosos. (fig. F)**
  Não utilize CDs com etiquetas ou autocolantes.
- **Há etiquetas coladas. (fig. G)**



Installation

Precautions

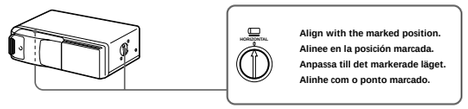
- Choose the mounting location carefully, observing the following:
  - The unit is not subject to temperatures exceeding 55°C (such as in a car parked in direct sunlight).
  - The unit is not subject to direct sunlight.
  - The unit is not near heat sources (such as heaters).
  - The unit is not exposed to rain or moisture.
  - The unit is not exposed to excessive dust or dirt.
  - The unit is not subject to excessive vibration.
  - The fuel tank should not be damaged by the tapping screws.
  - There should be no wire harnesses or pipes under the place where you are going to install the unit.
  - The spare tire, tools or other equipment in or under the trunk should not be interfered with or damaged by the screws or the unit itself.
- Be sure to use only the supplied mounting hardware for a safe and secure installation.
- Use only the supplied screws.
- Make holes of ø 3.5 mm only after making sure there is nothing on the other side of the mounting surface.

How to install the unit

The brackets ① provide two positions for mounting, high and low. Use the appropriate screw holes according to your preference.

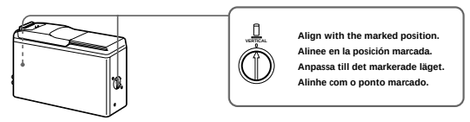
Horizontal installation

1


HORIZONTAL
Align with the marked position.
Alinee en la posición marcada.
Anpassa till det markerade läget.
Alinhe com o ponto marcado.

Vertical installation

1

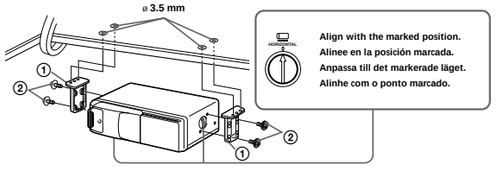

VERTICAL
Align with the marked position.
Alinee en la posición marcada.
Anpassa till det markerade läget.
Alinhe com o ponto marcado.

Suspended installation

When the unit is to be installed under the rear tray etc. in the trunk compartment, make sure the following provisions are made.

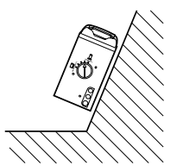
- Choose the mounting location carefully so that the unit can be installed horizontally.
- Make sure the unit does not hinder the movement of the torsion bar spring etc. of the trunk lid.

1


ø 3.5 mm
HORIZONTAL
Align with the marked position.
Alinee en la posición marcada.
Anpassa till det markerade läget.
Alinhe com o ponto marcado.

Inclined installation

After installing the unit, align the dials with one of the marks so that the arrows are as vertical as possible.



Note
Be sure to align the left and right dials with the same mark.

Instalación

Precauciones

- Elija cuidadosamente el lugar de montaje, teniendo en cuenta lo siguiente:
  - La unidad no queda sometida a temperaturas superiores a los 55°C (como en un automóvil aparcado a la luz solar directa).
  - La unidad no queda sometida a la luz solar directa.
  - La unidad no queda cercana a fuentes térmicas (como aparatos de calefacción).
  - La unidad no queda expuesta a la lluvia o a la humedad.
  - La unidad no queda expuesta a polvo o suciedad excesivos.
  - La unidad no queda sometida a vibraciones excesivas.
  - El depósito de combustible no deberá dañarse con los tornillos autorroscantes.
  - No deberá haber mazos de conductores ni tubos debajo del lugar donde vaya a instalar la unidad.
  - La rueda de repuesto, las herramientas, u otros equipos situados dentro o debajo del portaequipajes no deberán verse interferidos ni dañados por los tornillos ni por la propia unidad.
- Para realizar una instalación segura, emplee solamente la ferretería de montaje suministrada.
- Utilice sólo los tornillos suministrados.
- Antes de hacer los orificios de ø 3,5 mm, compruebe que no haya nada en el otro lado de la superficie de montaje.

Forma de instalar la unidad

Los soportes ① proporcionan dos posiciones de montaje, alta y baja. Utilice los orificios para tornillo apropiados según sus preferencias.

Instalación horizontal

1

HORIZONTAL
Align with the marked position.
Alinee en la posición marcada.
Anpassa till det markerade läget.
Alinhe com o ponto marcado.

Instalación vertical

1

VERTICAL
Align with the marked position.
Alinee en la posición marcada.
Anpassa till det markerade läget.
Alinhe com o ponto marcado.

Instalación suspendida

Cuando desee instalar la unidad debajo de la bandeja trasera, etc. en el interior del portaequipajes, tenga en cuenta lo siguiente:

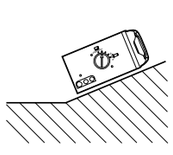
- Elija cuidadosamente el lugar de montaje de forma que la unidad pueda instalarse horizontalmente.
- Cerciórese de que la unidad no impida el movimiento del resorte de la barra de torsión, etc., de la tapa del portaequipajes.

1

ø 3.5 mm
HORIZONTAL
Align with the marked position.
Alinee en la posición marcada.
Anpassa till det markerade läget.
Alinhe com o ponto marcado.

Instalación sobre una superficie inclinada

Después de instalar la unidad, alinee los diales con una de las marcas, de forma que la flecha quede orientada en posición vertical tanto como sea posible.



Nota
Asegúrese de alinear los diales derecho e izquierdo con la misma marca.

Montering

Säkerhetsföreskrifter

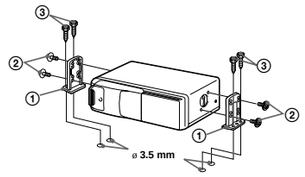
- Var noga vid monteringslägets val. Observera följande:
  - Utsätt inte enheten för temperaturer som överstiger 55°C (som t ex i en bil parkerad i direkt solljus).
  - Utsätt inte enheten för direkt solljus.
  - Placera inte enheten i närheten av värmekällor (som varmluftsventiler m.m.).
  - Undvik att enheten utsätts för regn eller fukt.
  - Undvik att enheten utsätts för mycket damm eller smuts.
  - Undvik att enheten utsätts kraftiga vibrationer eller skakningar.
  - Att bränsletanken inte skadas när du drar åt de självgängande skruvarna.
  - Att det inte finns några kabelhärvor, rör, ledningar eller slangar under platsen där CD-skivväxlaren monteras.
  - Att reservdäcket, verktyg eller annan utrustning i eller under bagageutrymmet inte skadas av monteringen.
- Var noga med att endast använda de medföljande monteringstilllbehören för att vara säker på att CD-skivväxlaren monteras ordentligt och på ett korrekt sätt.
- Använd endast medföljande skruvar.
- Kontrollera först att det inte finns något på andra sidan monteringsytan som kan ta skada när du borrar hålen (ø 3,5 mm).

Montering

Fästena ① kan användas i två monteringslägen, högt eller lågt. Använd de skruvhål som passar bäst.

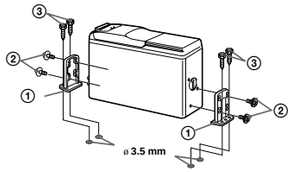
Liggande i horisontellt läge

2



Stående i vertikalt läge

2

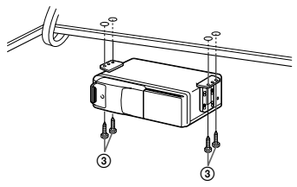


Hängande montering

Observera följande när CD-växlare monteras i bagageutrymmet, under hatthyllan längst bak i bilen osv:

- var noga när du väljer monteringsläge för att vara säker på att CD-skivväxlaren kan monteras liggande i horisontell ställning,
- var noga med att kontrollera att CD-växlaren inte hindrar fjäderns rörelser i torsionsarmen eller liknande i bakluckan.

2



Placera på lutande underlag

När du har placerat enheten där du vill ha den, justerar du vridreglaget till den markering som gör att pilen är så nära lodrät position som möjligt.

Observera
Kom ihåg att justera både det vänstra och det högra vridreglaget till samma markering.

Instalação

Precauções

- Seleccione cuidadosamente o local de montagem, observando os seguintes pontos:
  - O aparelho não está sujeito a temperaturas superiores a 55°C (tal como no interior de automóveis estacionados sob a luz solar directa);
  - O aparelho não está sujeito à luz solar directa;
  - O aparelho não está próximo de fontes de calor (tais como aquecedores);
  - O aparelho não está sujeito à chuva ou humidade;
  - O aparelho não está exposto a muito pó ou sujidade;
  - O aparelho não está sujeito a vibrações excessivas.
  - Verificar se os parafusos de fixação não vão danificar o depósito de combustível
  - Verificar se não existem feixes de cabos ou tubos no local onde será instalado o aparelho.
  - Verificar se o aparelho ou os parafusos de fixação não vão danificar ou interferir com os pneus sobresselentes, as ferramentas ou outros equipamentos colocados no porta-bagagens.
- Para que a instalação fique bem feita e seja segura, utilize unicamente o material fornecido para a montagem.
- Utilize apenas os parafusos fornecidos.
- Certifique-se de que não existe nada no lado de trás da superfície de montagem e faça furos com um diâmetro de 3,5 mm.

Como instalar o aparelho

Os suportes ① permitem duas posições de montagem; em cima e em baixo. Coloque os parafusos na posição pretendida.

Instalação horizontal

2

Instalação vertical

2

Instalação suspensa

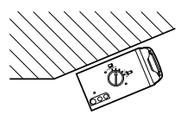
Se for instalar o aparelho por baixo da prateleira traseira, no porta-bagagens, etc., tome as seguintes precauções:

- escolha um local de instalação que permita que o aparelho seja montado na horizontal;
- certifique-se de que o aparelho não atrapalhará o movimento da mola do fecho da porta do porta bagagens, etc.

2

Instalação inclinada

Depois de ter instalado o aparelho, alinhe os selectores com uma das marcas para que a seta fique o mais próximo possível da posição vertical.



Nota
Alinhe os selectores do lado direito e do lado esquerdo com a mesma marca.

Connections/Conexiones/ Anslutningar/Ligações

For details, refer to the Installation/ Connections manual of each product.

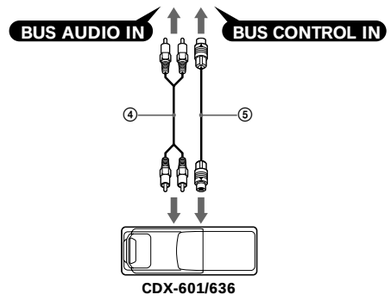
Con respecto a los detalles, consulte el manual de instalación/conexiones de cada producto.

Mer information finns i de anvisningar för montering och anslutning som medföljer de olika komponenterna.

Para maiores detalhes, consulte o manual de instalação/ligação de cada produto.

Connection diagram/Diagrama de conexión/Kopplingsdiagram/ Diagrama de ligação

Sony BUS compatible car audio
Sistema de audio de automóvil compatible con BUS Sony
Sonys bilstereo kompatibel med Sonys överföringssystem BUS
Autorádio estéreo compatível com o sistema Sony BUS



Note
For connecting two or more changers, the XA-C30 source selector (optional) is necessary.

Nota
Si desea conectar dos o más cambiadores, es preciso utilizar un selector de fuente XA-C30 (opcional).

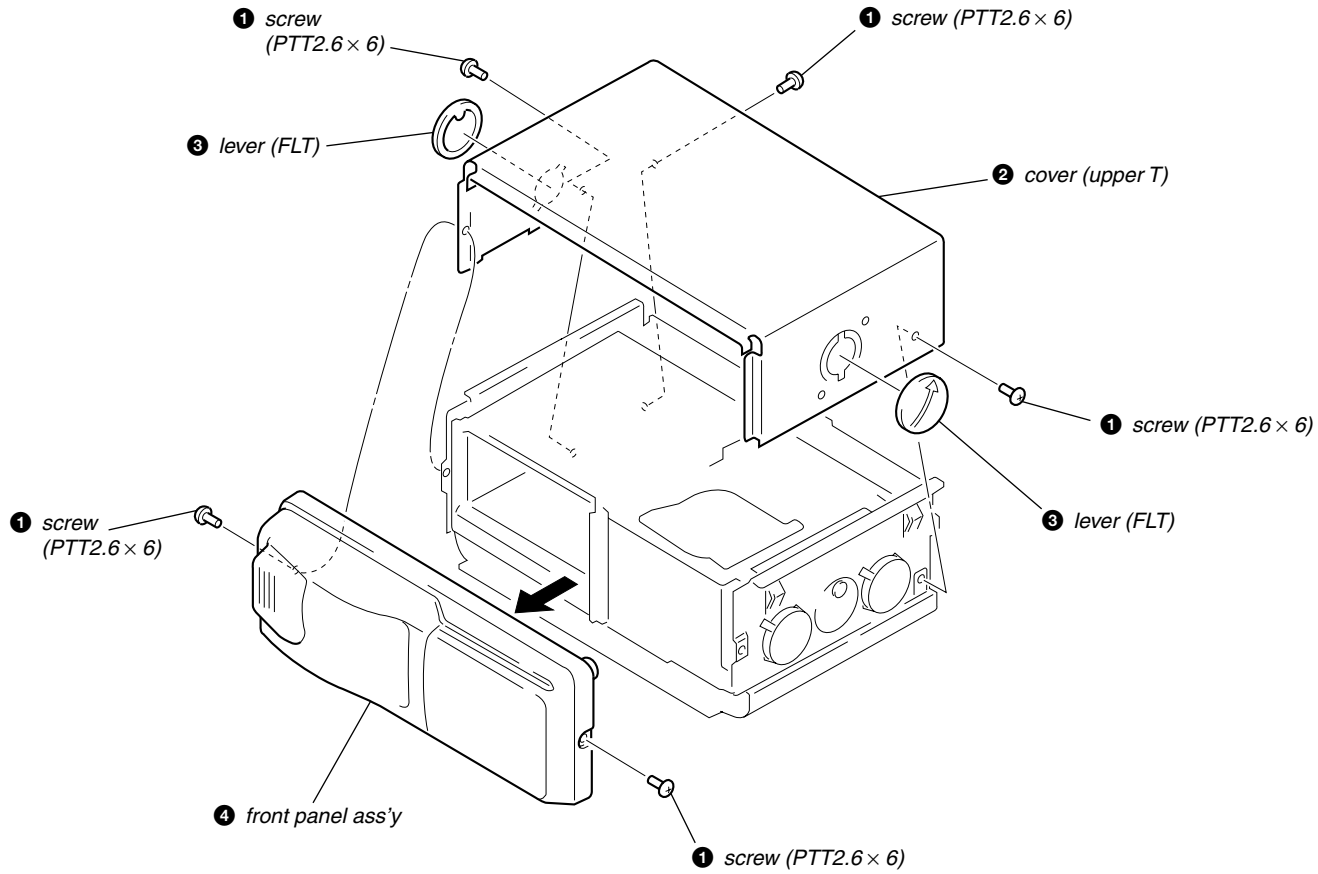
Observera
Om du vill ansluta två eller fler växlare måste du ha en XA-C30-väljare (tillval).

Nota
Para ligar dois ou mais permutadores, é necessário o selector de fonte XA-C30 (opcional).

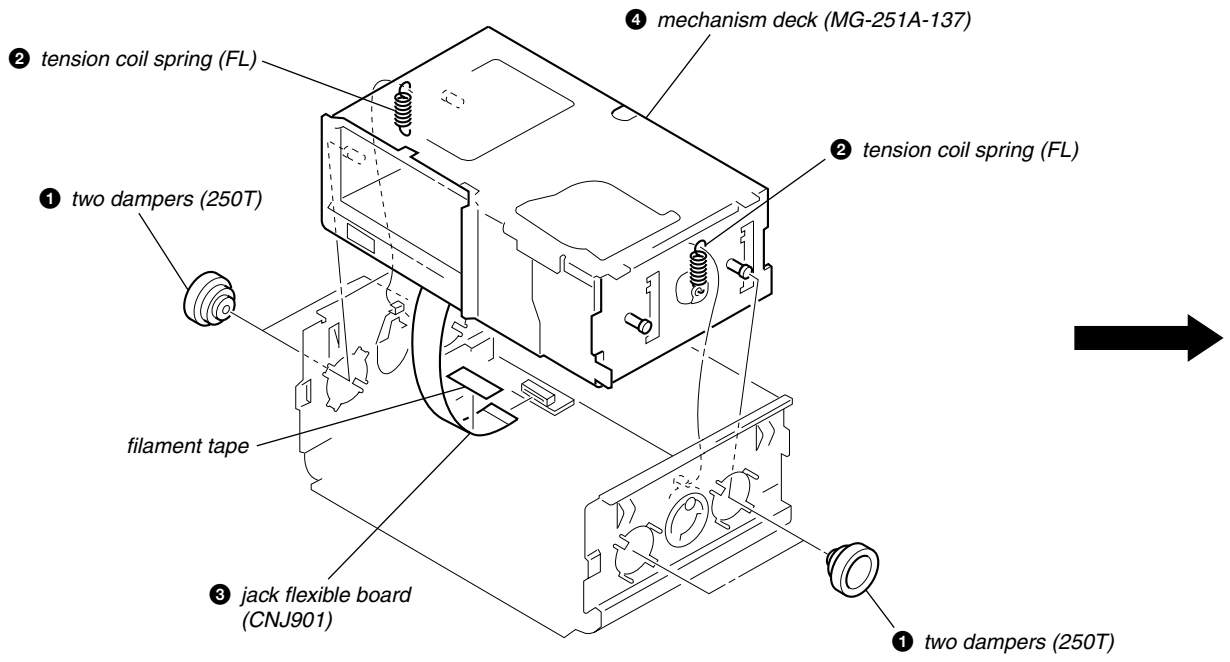
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

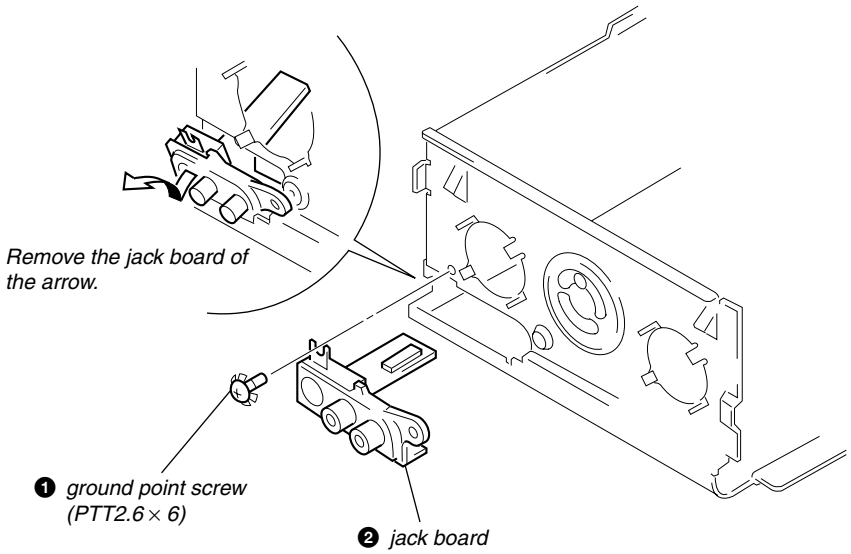
COVER (UPPER T), FRONT PANEL ASS'Y


❶ screw (PTT2.6 × 6)
❶ screw (PTT2.6 × 6)
❸ lever (FLT)
❷ cover (upper T)
❶ screw (PTT2.6 × 6)
❸ lever (FLT)
❶ screw (PTT2.6 × 6)
❹ front panel ass'y
❶ screw (PTT2.6 × 6)

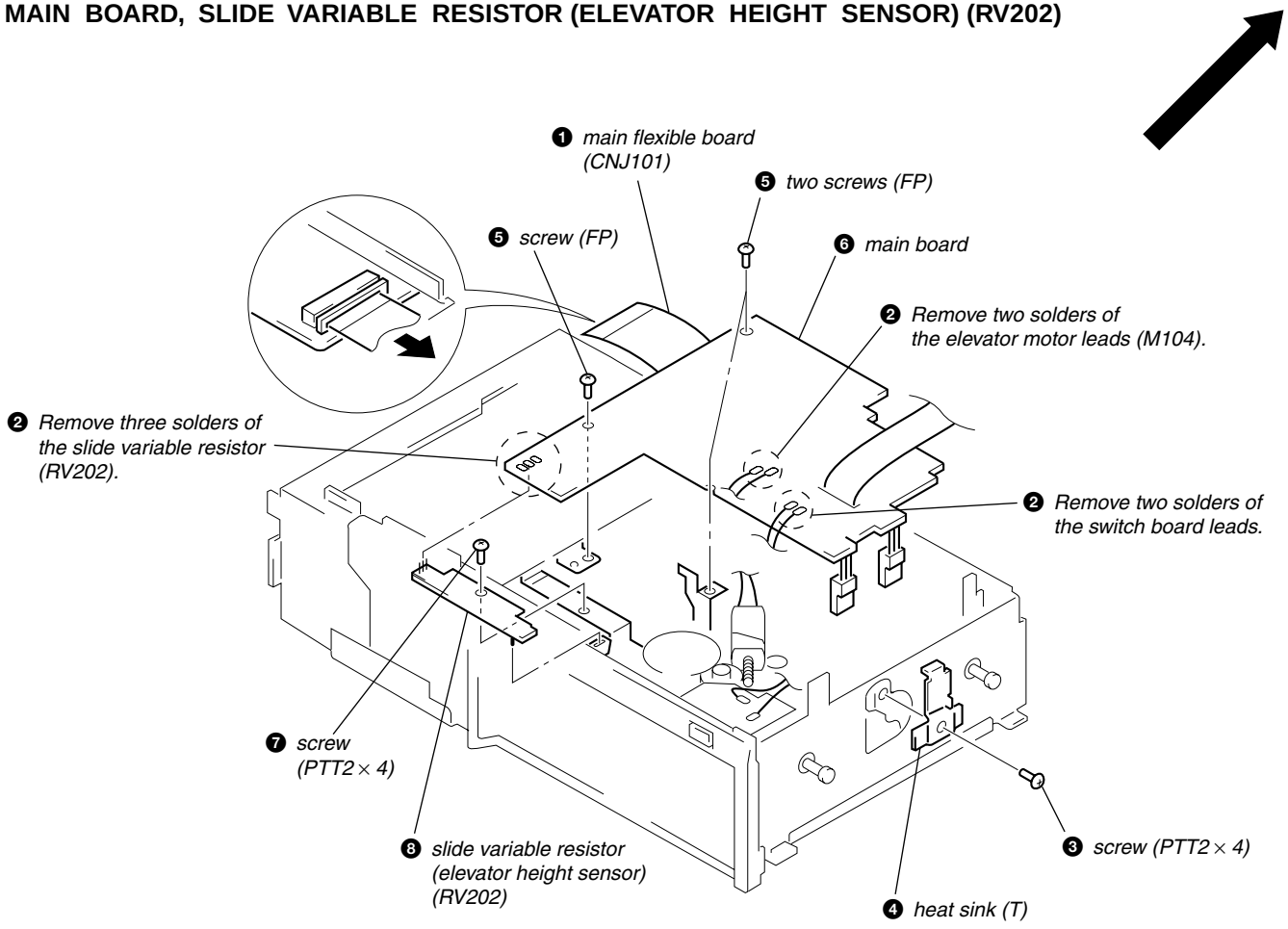
MECHANISM DECK (MG-251A-137)


❹ mechanism deck (MG-251A-137)
❷ tension coil spring (FL)
❷ tension coil spring (FL)
❶ two dampers (250T)
filament tape
❸ jack flexible board (CNJ901)
❶ two dampers (250T)

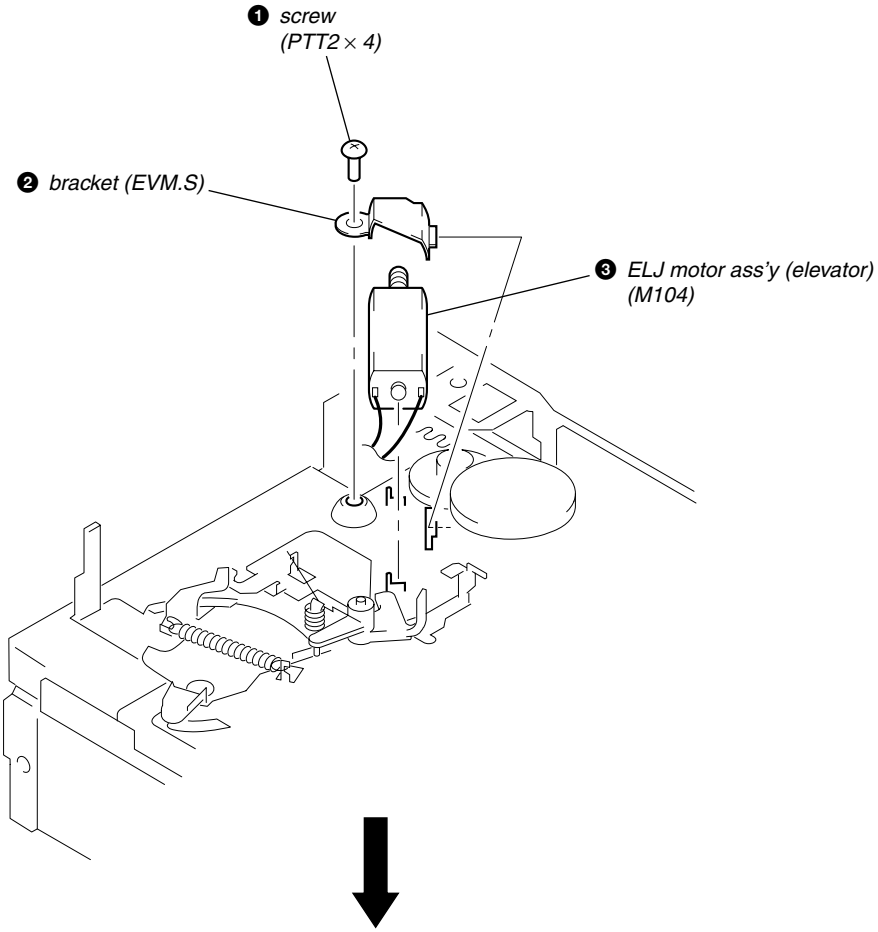
JACK BOARD



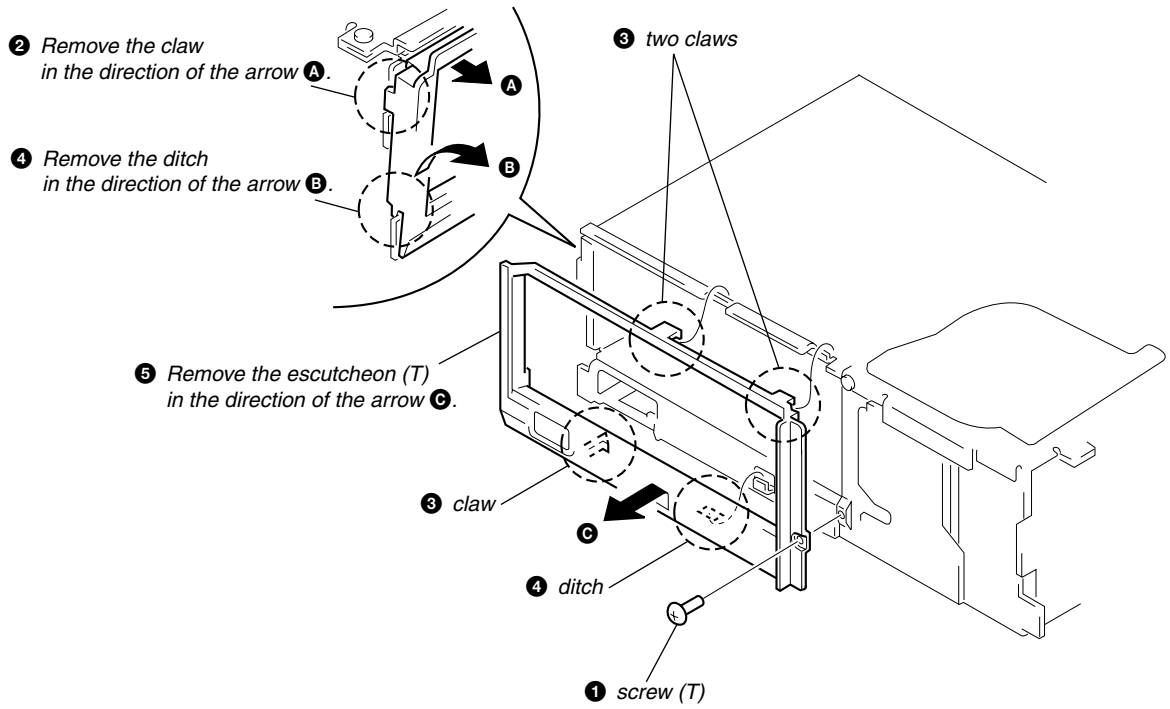
MAIN BOARD, SLIDE VARIABLE RESISTOR (ELEVATOR HEIGHT SENSOR) (RV202)


❶ main flexible board (CNJ101)
❺ two screws (FP)
❺ screw (FP)
❻ main board
❷ Remove two solders of the elevator motor leads (M104).
❷ Remove three solders of the slide variable resistor (RV202).
❷ Remove two solders of the switch board leads.
❼ screw (PTT2 × 4)
❽ slide variable resistor (elevator height sensor) (RV202)
❸ screw (PTT2 × 4)
❹ heat sink (T)

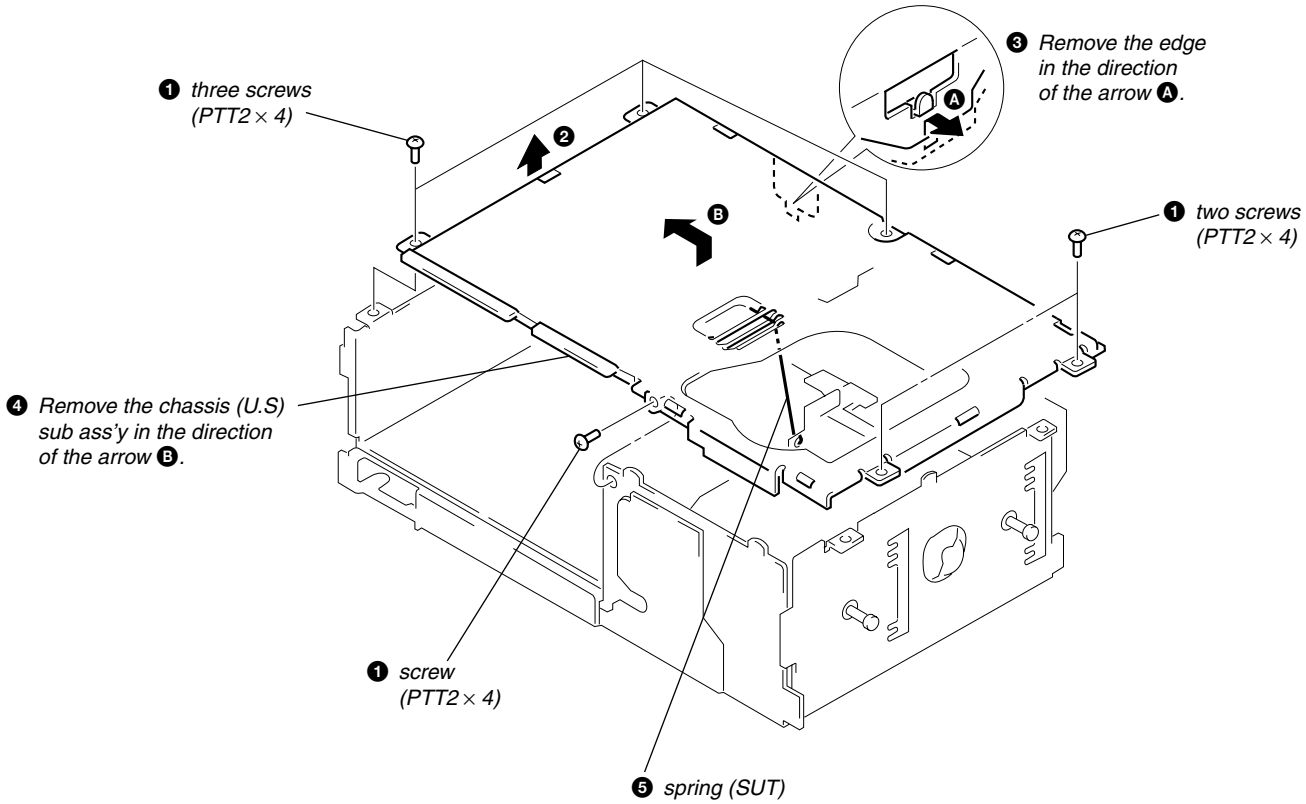
ELJ MOTOR ASS'Y (ELEVATOR) (M104)



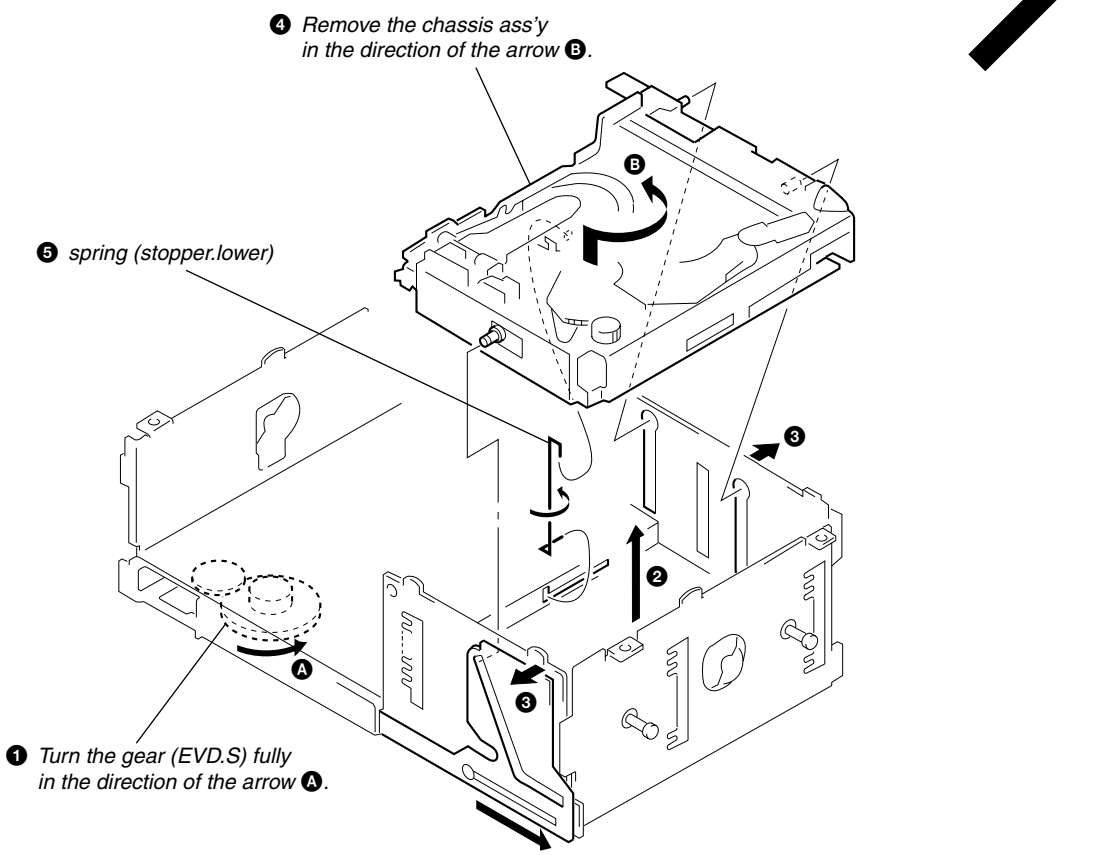
ESCUTCHEON (T)



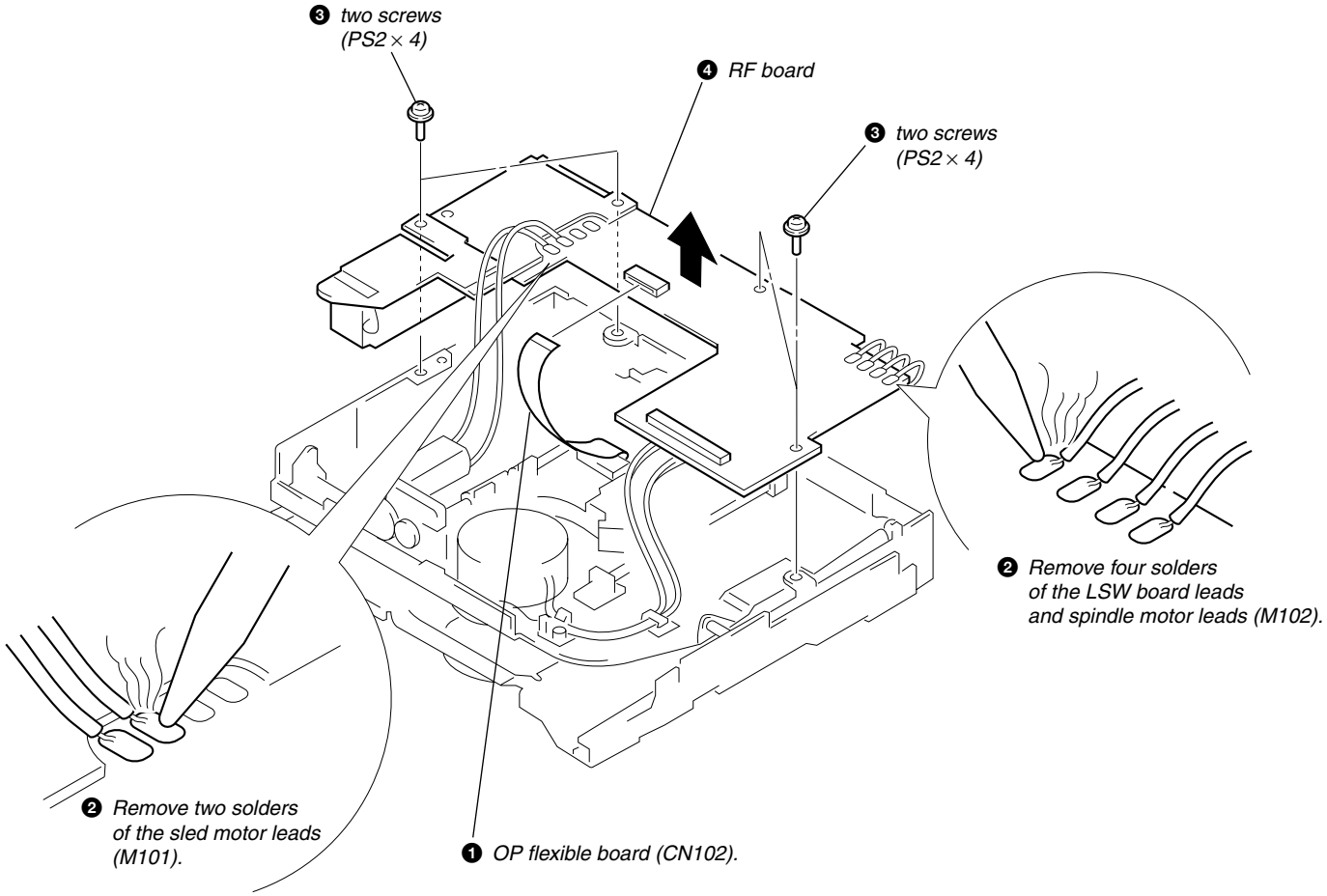
CHASSIS (U.S) SUB ASS'Y


❶ three screws (PTT2 × 4)
❷
❸ Remove the edge in the direction of the arrow Ⓐ.
Ⓐ
Ⓑ
❶ two screws (PTT2 × 4)
❹ Remove the chassis (U.S) sub ass'y in the direction of the arrow Ⓑ.
❶ screw (PTT2 × 4)
❺ spring (SUT)

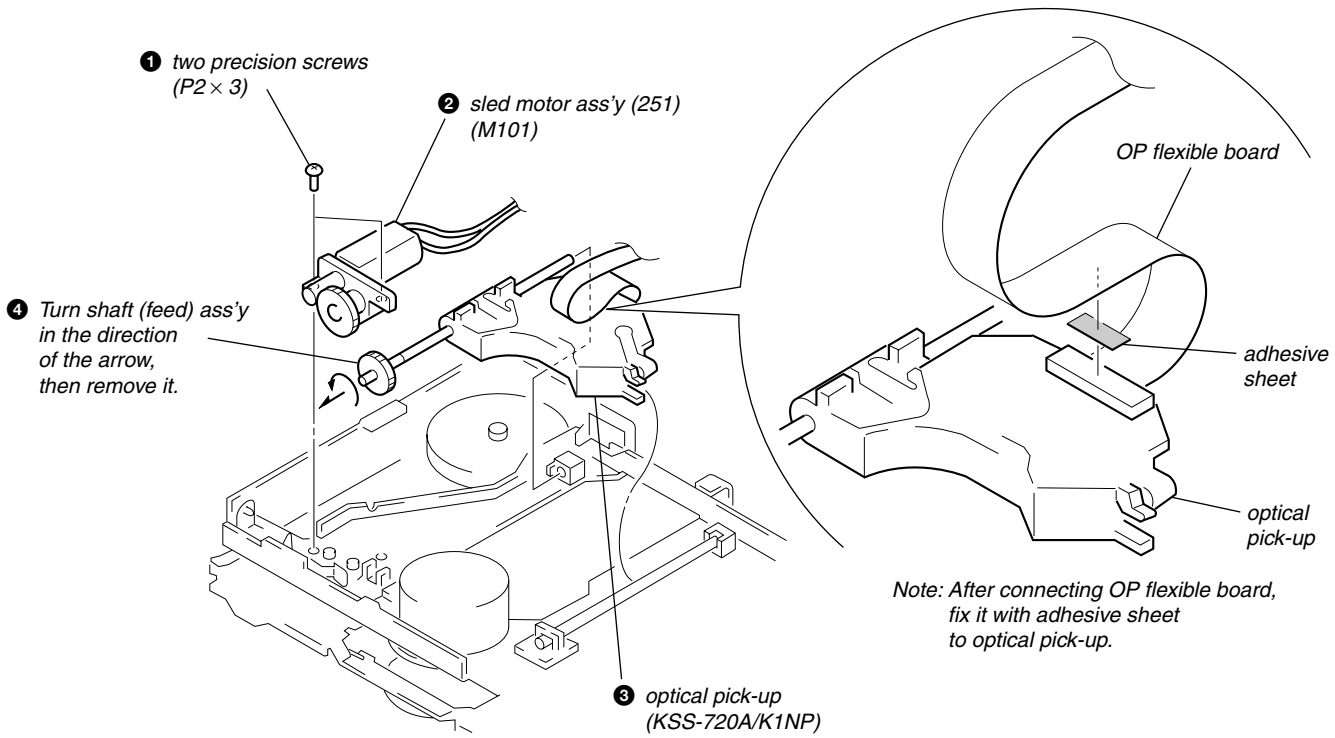
CHASSIS ASS'Y


❹ Remove the chassis ass'y in the direction of the arrow Ⓑ.
Ⓑ
❺ spring (stopper.lower)
❸
❷
Ⓐ
❸
❶ Turn the gear (EVD.S) fully in the direction of the arrow Ⓐ.

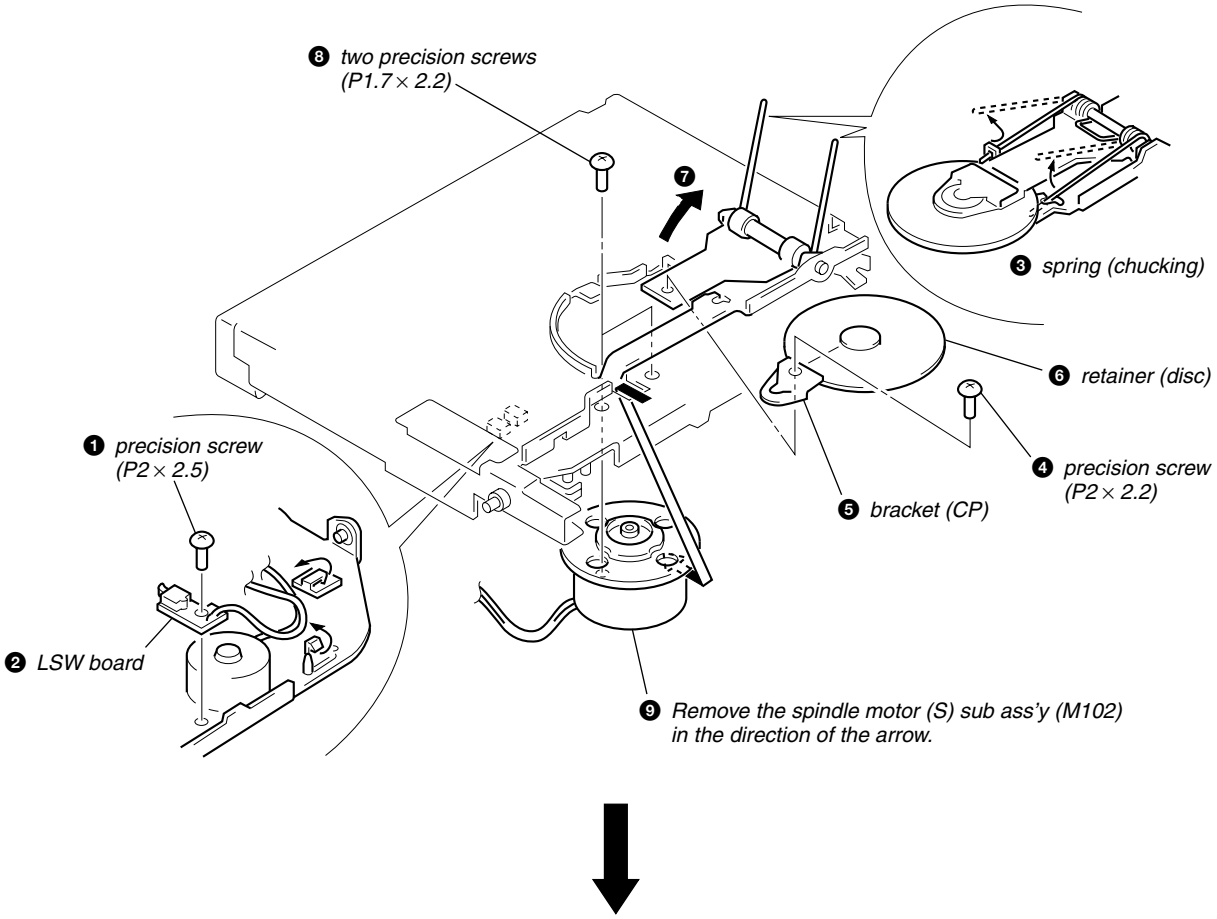
RF BOARD


❸ two screws (PS2 × 4)
❹ RF board
❸ two screws (PS2 × 4)
❷ Remove four solders of the LSW board leads and spindle motor leads (M102).
❷ Remove two solders of the sled motor leads (M101).
❶ OP flexible board (CN102).

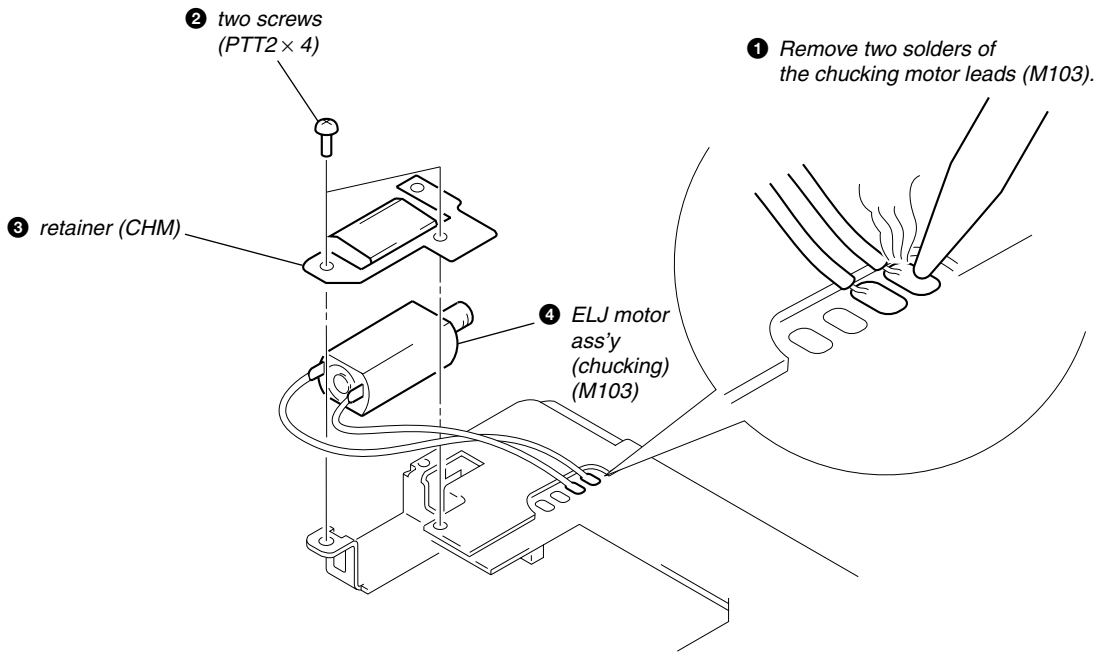
SLED MOTOR ASS'Y (251) (M101), OPTICAL PICK-UP (KSS-720A/K1NP)


❶ two precision screws (P2 × 3)
❷ sled motor ass'y (251) (M101)
❹ Turn shaft (feed) ass'y in the direction of the arrow, then remove it.
❸ optical pick-up (KSS-720A/K1NP)
OP flexible board
adhesive sheet
optical pick-up
Note: After connecting OP flexible board, fix it with adhesive sheet to optical pick-up.

LSW BOARD, SPINDLE MOTOR (S) SUB ASS'Y (M102)


❽ two precision screws (P1.7× 2.2)
❼
❸ spring (chucking)
❻ retainer (disc)
❶ precision screw (P2× 2.5)
❹ precision screw (P2× 2.2)
❺ bracket (CP)
❷ LSW board
❾ Remove the spindle motor (S) sub ass'y (M102) in the direction of the arrow.

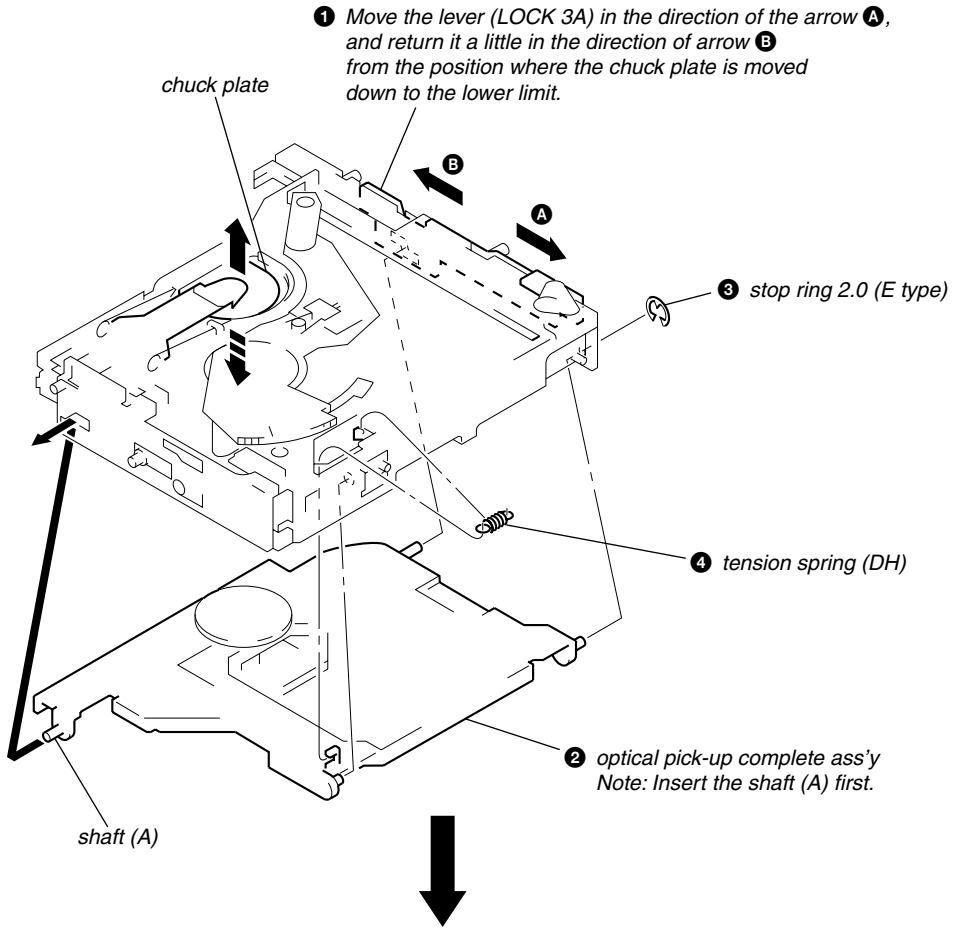
ELJ MOTOR ASS'Y (CHUCKING) (M103)



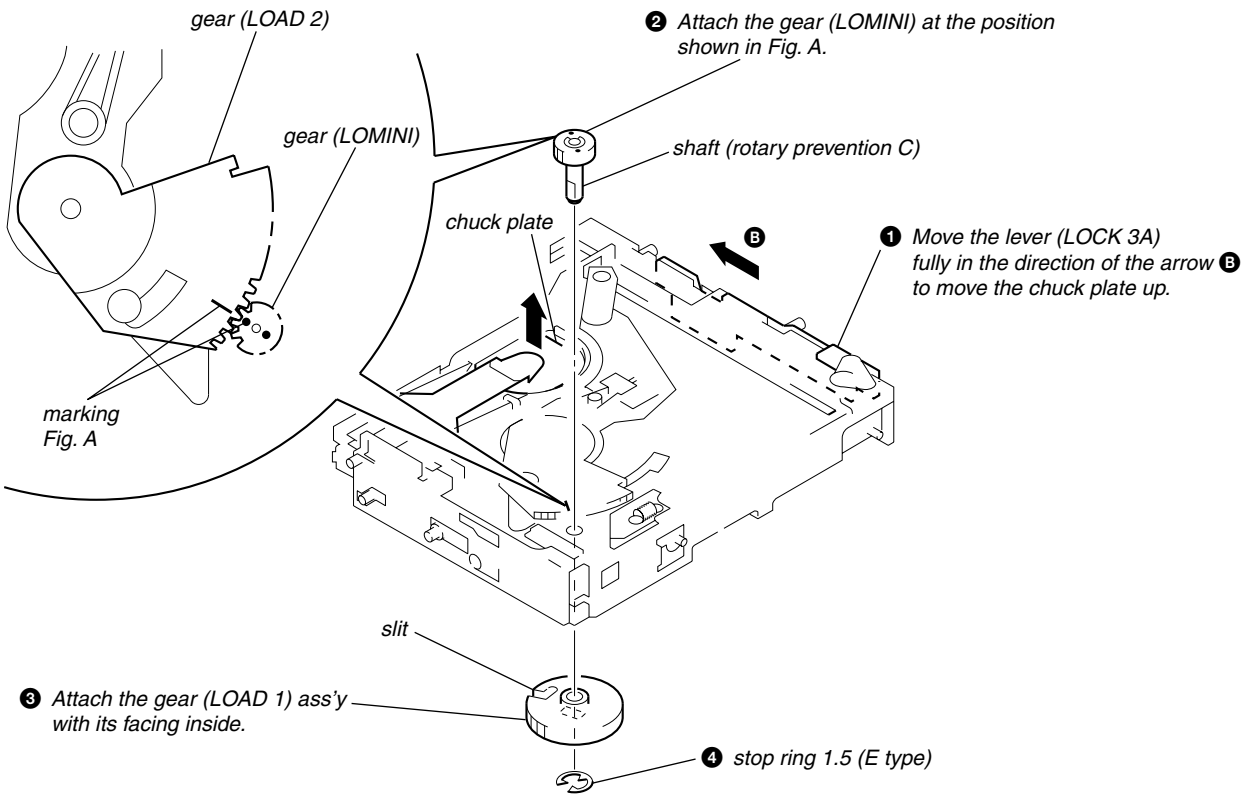
SECTION 4
MECHANISM DECK ASSEMBLY

Note: Follow the assembly procedure in the numerical order given.

OPTICAL PICK-UP COMPLETE ASS'Y

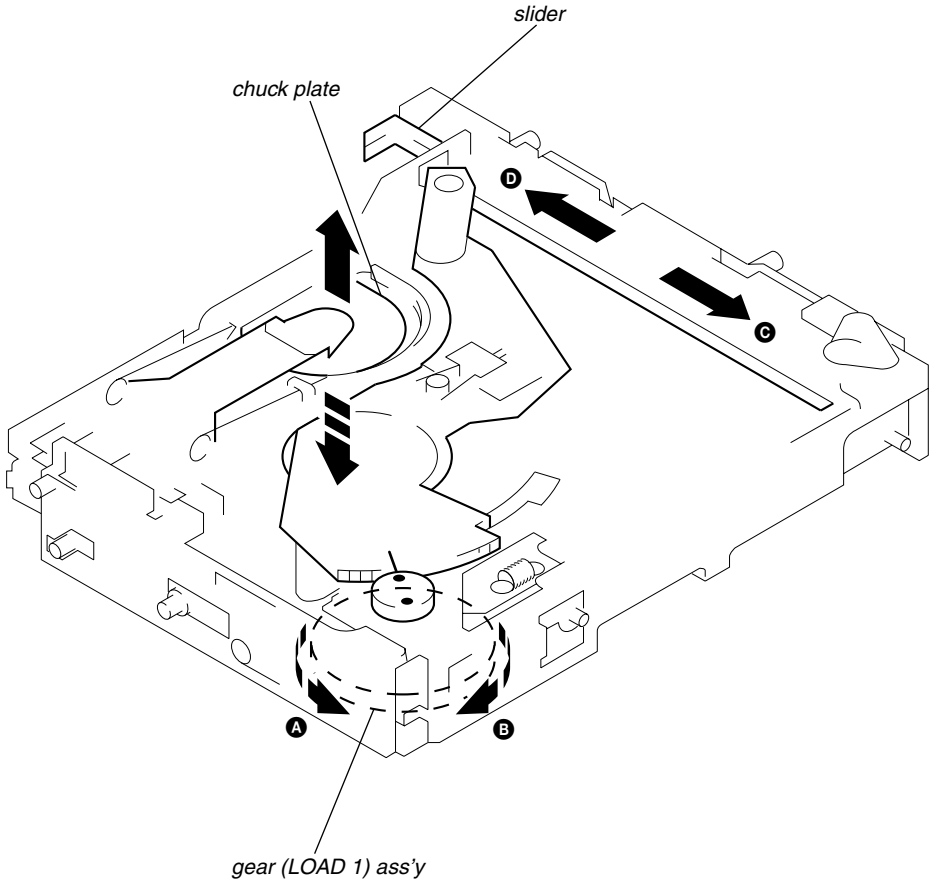

❶ Move the lever (LOCK 3A) in the direction of the arrow Ⓐ, and return it a little in the direction of arrow Ⓑ from the position where the chuck plate is moved down to the lower limit.
chuck plate
Ⓑ
Ⓐ
❸ stop ring 2.0 (E type)
❹ tension spring (DH)
❷ optical pick-up complete ass'y
Note: Insert the shaft (A) first.
shaft (A)

GEAR (LOMINI)/(LOAD 1) ASS'Y


gear (LOAD 2)
❷ Attach the gear (LOMINI) at the position shown in Fig. A.
gear (LOMINI)
shaft (rotary prevention C)
chuck plate
Ⓑ
❶ Move the lever (LOCK 3A) fully in the direction of the arrow Ⓑ to move the chuck plate up.
marking
Fig. A
slit
❸ Attach the gear (LOAD 1) ass'y with its facing inside.
❹ stop ring 1.5 (E type)

OPERATION CHECK

❶ *Confirm that the slider moves in the direction of the arrow Ⓒ to move down the chuck plate if the gear (LOAD 1) is rotated in the direction of the arrow Ⓐ or the chuck plate moves up and the slider moves in the direction of the arrow Ⓓ if the gear is rotated in the direction of the arrow Ⓑ.*

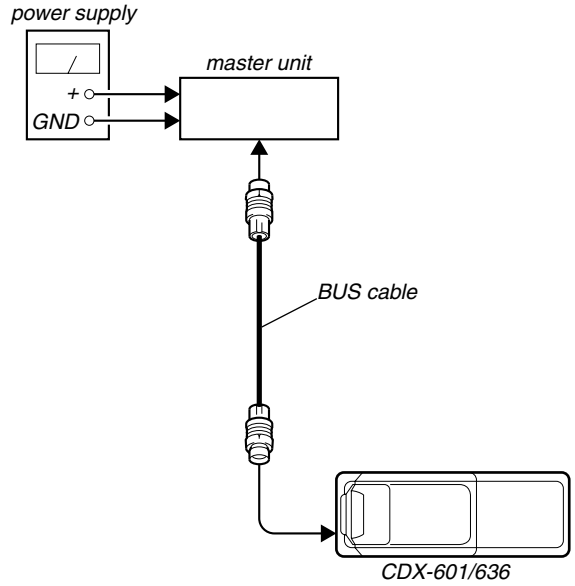


SECTION 5
MECHANICAL ADJUSTMENT

• Elevator Height (Address) Adjustment

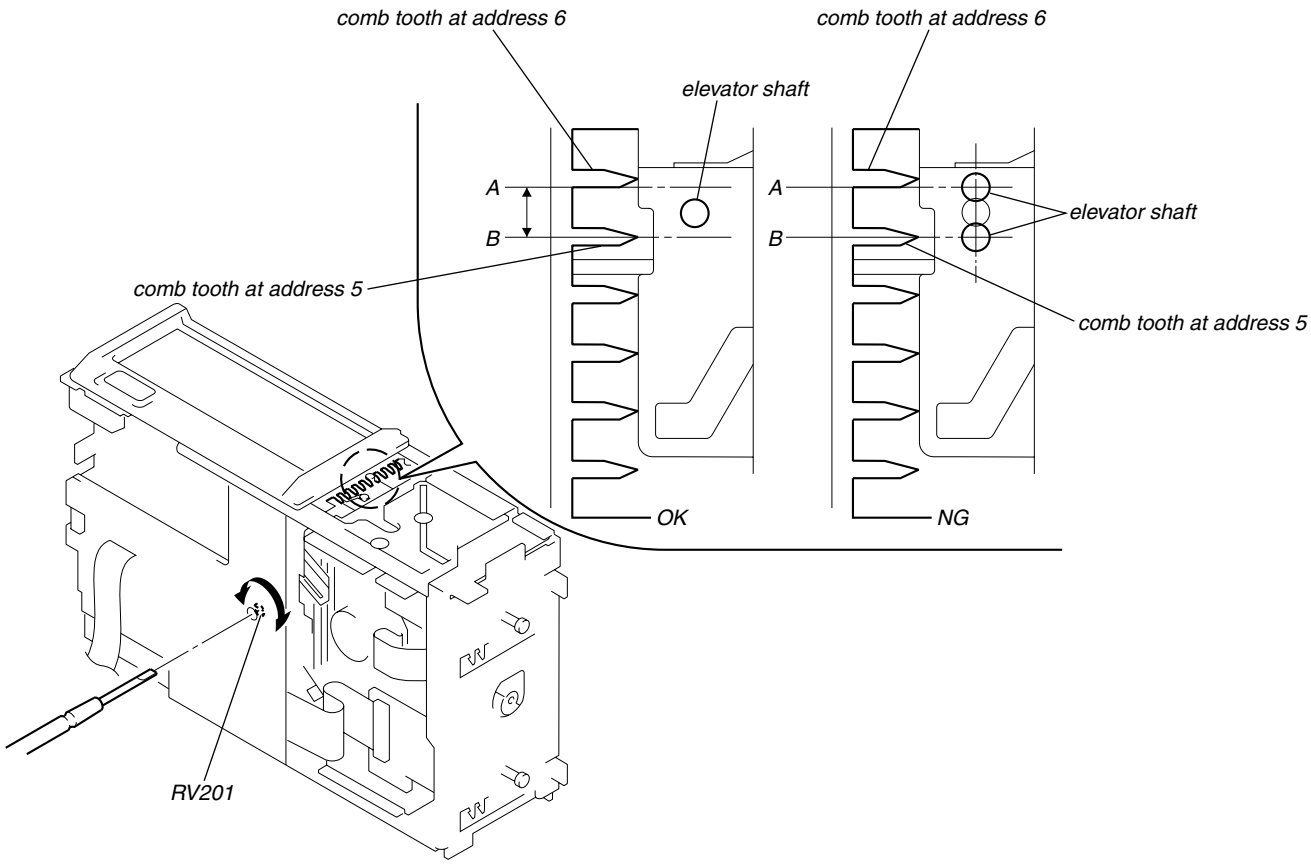
Note: This adjustments is necessary when the system controller (IC201), variable resistor (RV201), slider (R), slider (L), or chassis (ELV) was replaced for any repair.

Connection:



Adjustment Method:

1. Connect this set to the master unit (e.g. MDX-C7970/C7970R), load a disc magazine, and place the set vertically as shown below.
2. Connect the regulated power supply to the master unit, and turn the power on.
3. Press the DISC button on the master unit and select DISC 5.
4. At this time, if the elevator shaft does not position between comb teeth A and B at addresses 5 and 6 as shown below, adjust the following.
5. Press repeatedly the DISC + and – buttons on the master unit so that the elevator shafts moves from address 6 to address 5, or from 5 to 6. At this time, adjust RV201 on the main board so that the elevator shaft positions smoothly between comb teeth A and B.
6. Further, place the set horizontally and make same adjustment as mentioned above.
7. After adjustment at addresses 5 to 6 is finished, check all operations from addresses 1 to 10 with the set placed vertically and horizontally respectively to confirm that the elevator shaft positions in a range between comb teeth A to B.

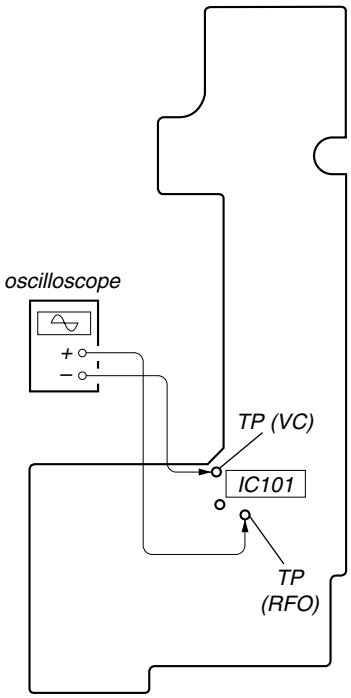


SECTION 6
ELECTRICAL CHECK

Note:
Power supply voltage: DC14.4 V (more than 3 A).

• FOCUS BIAS CHECK

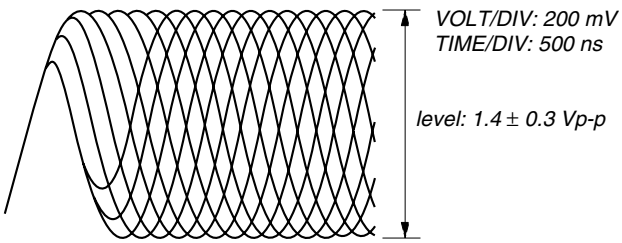
– RF BOARD –
(Component Side)



Procedure:
1. Connect the oscilloscope to TP (RFO) and TP (VC) on the RF board.
2. Put the set into play mode by loading the disc.
3. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

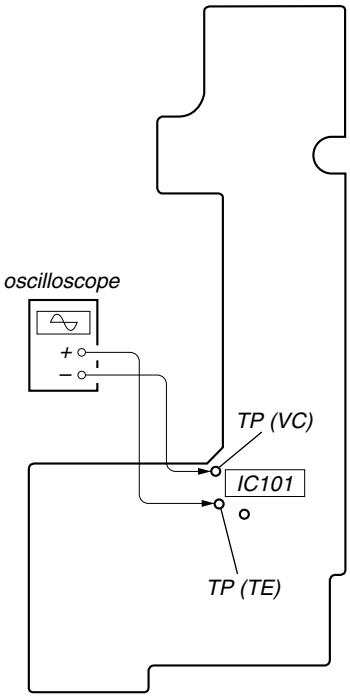
Note:
Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

RF signal waveform



• TRACKING OFFSET CHECK

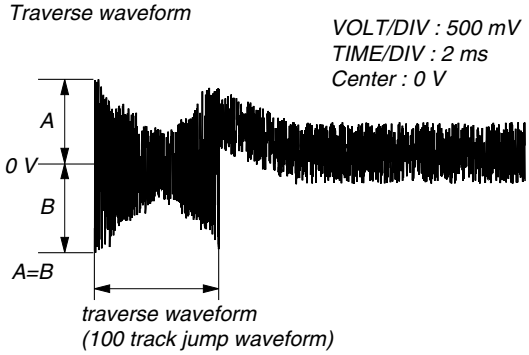
– RF BOARD –
(Component Side)



Procedure:
1. Connect the oscilloscope to TP (TE) and TP (VC) on the RF board.
2. Put the set into play mode by loading the disc.
3. Press the ⏮ AMS ⏭ button, and check the traverse waveform*.
4. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0 V dc, and check this level.

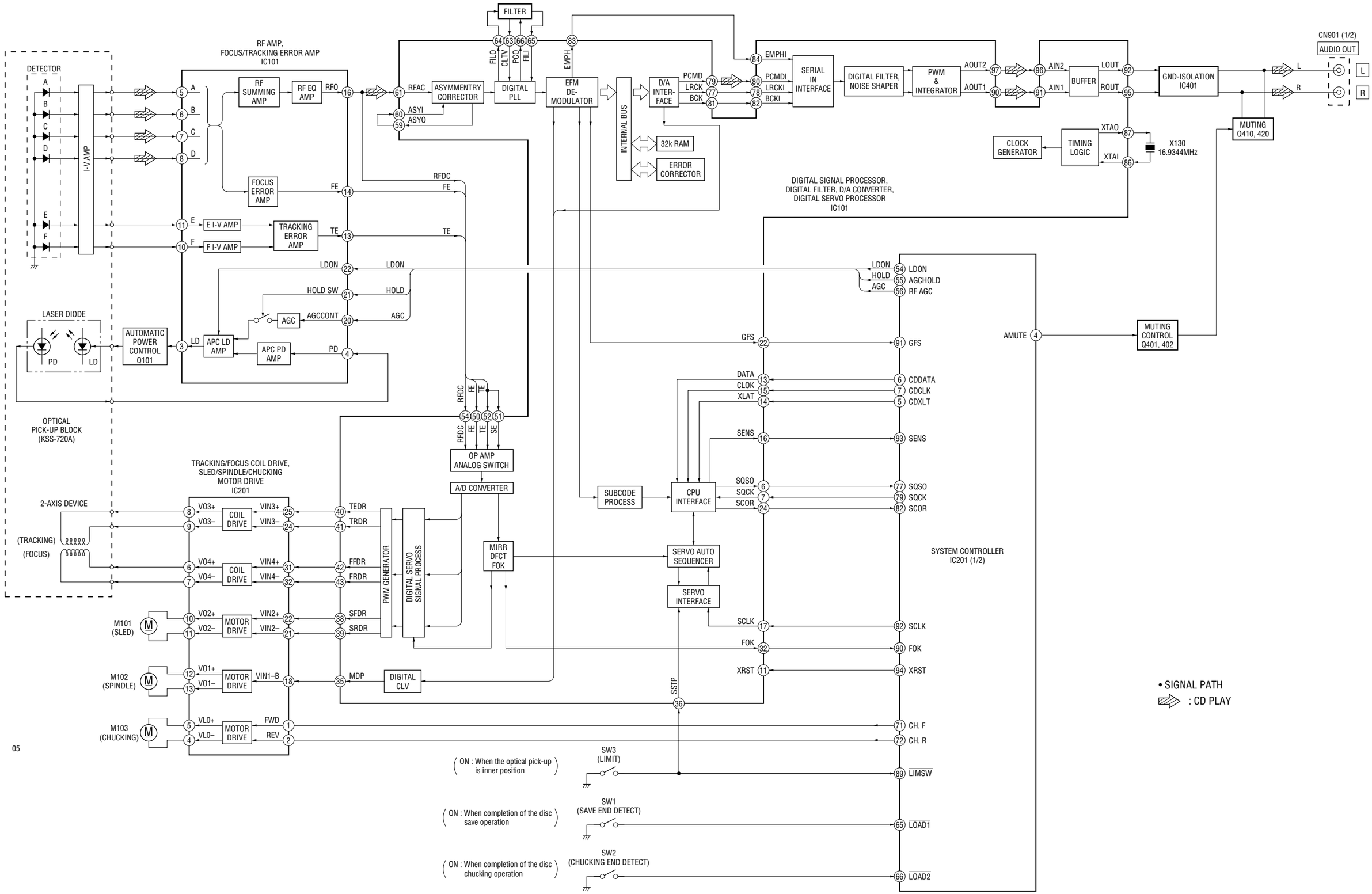
* Traverse waveform: This is the tracking error wave form appears when crossing the track.

Traverse waveform



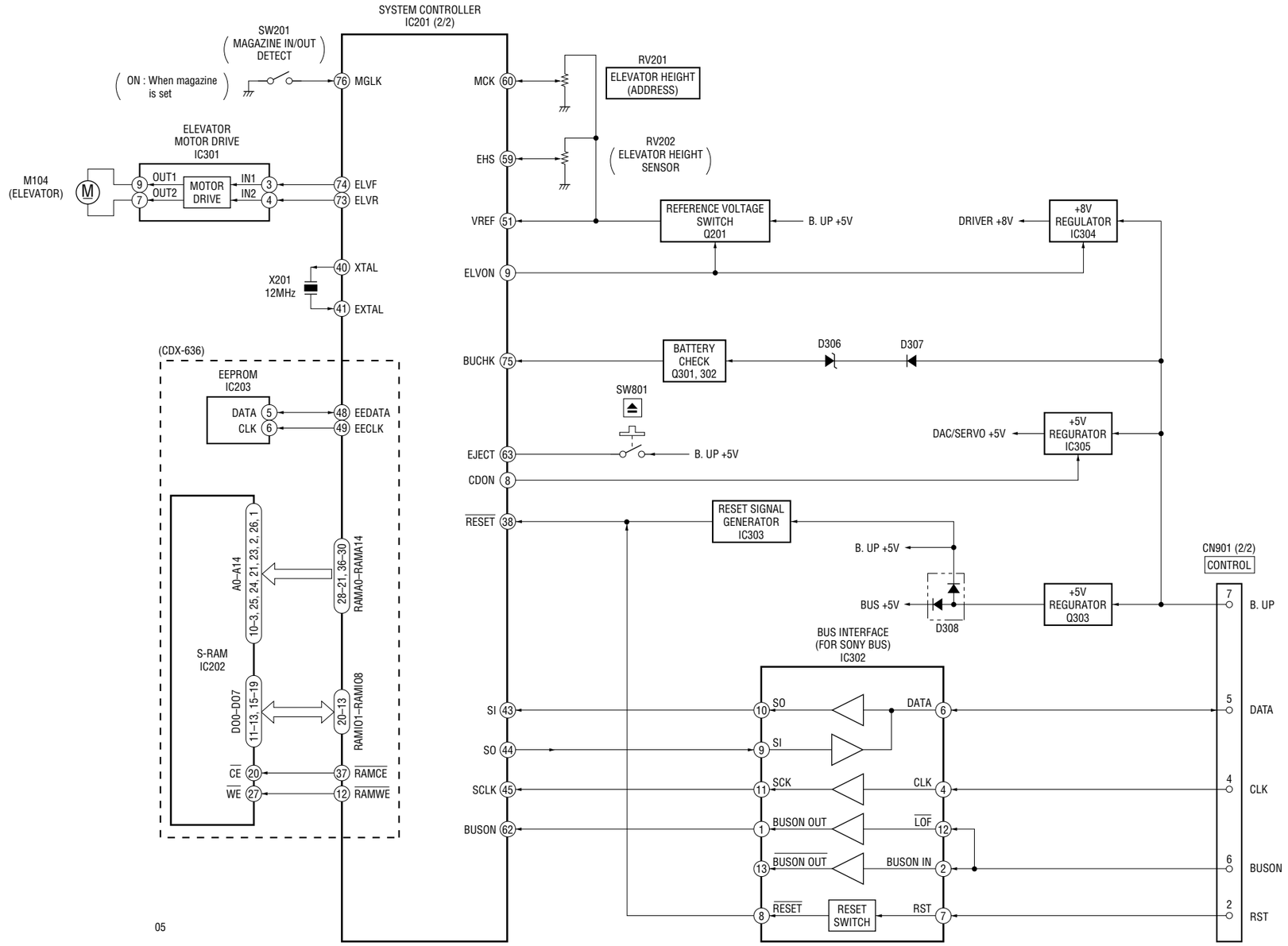
SECTION 7
DIAGRAMS

7-1. BLOCK DIAGRAM – RF SERVO/DA CONVERTER Section –

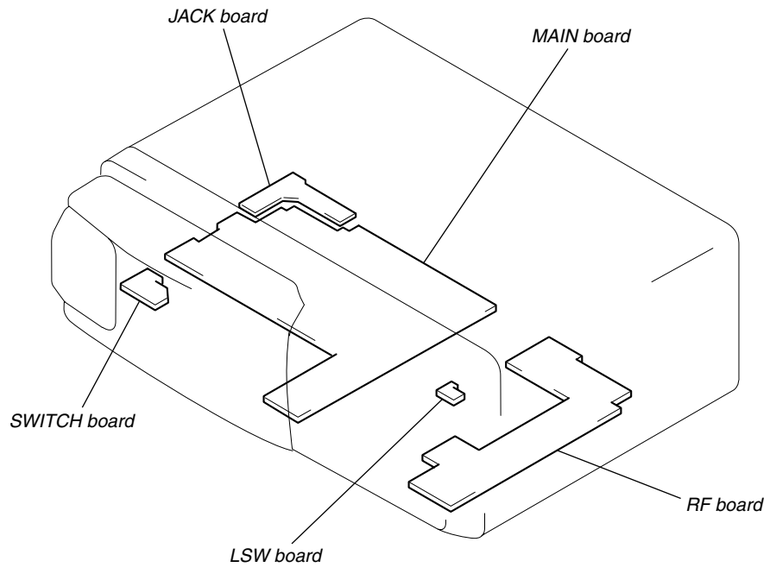


05

7-2. BLOCK DIAGRAM – BUS CONTROL/POWER SUPPLY Section –



• **Circuit boards Location**



7-3. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Boards:

- ⚬——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

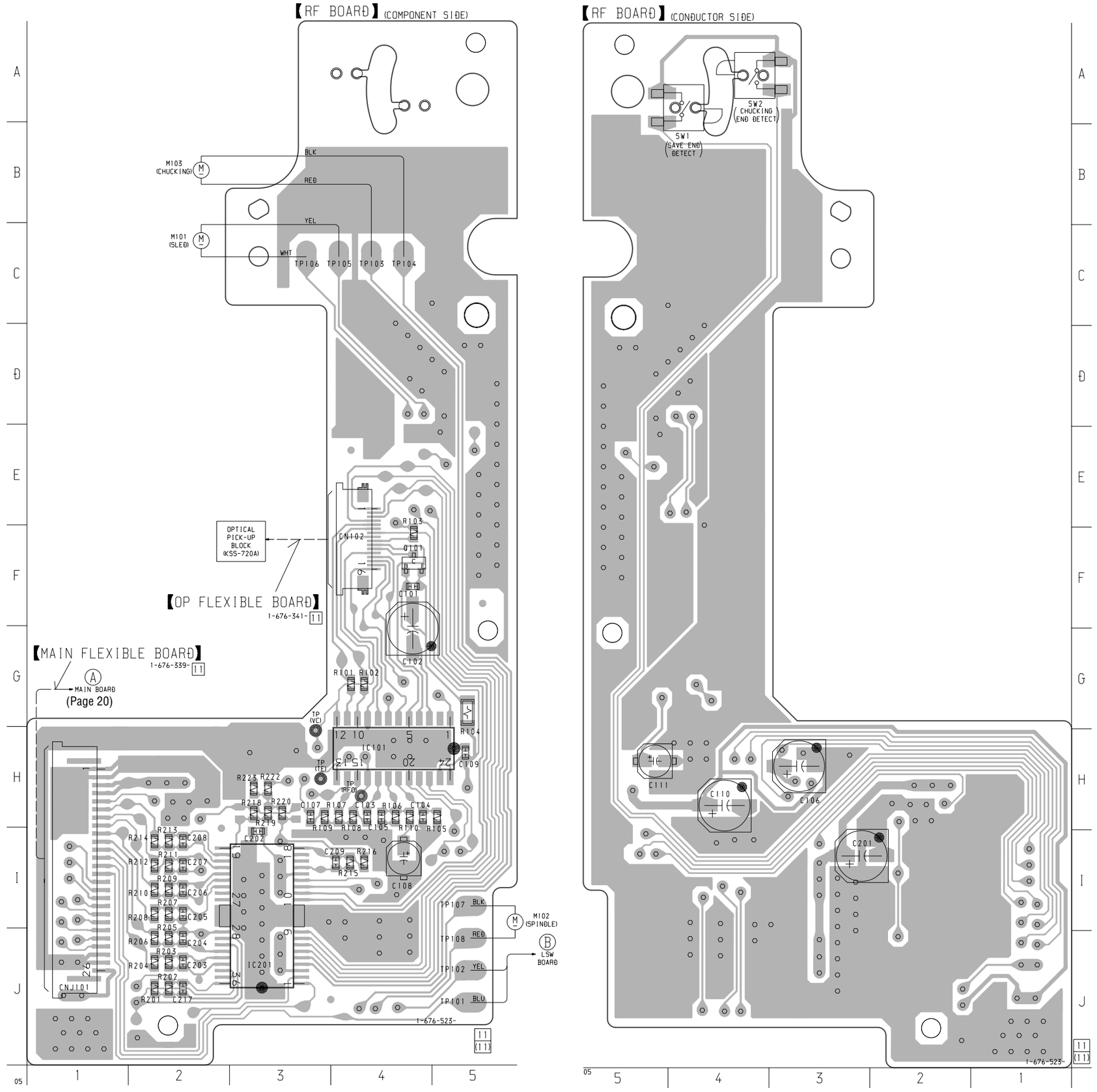
Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line.
- ▬ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD PLAY
  ✻ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD PLAY

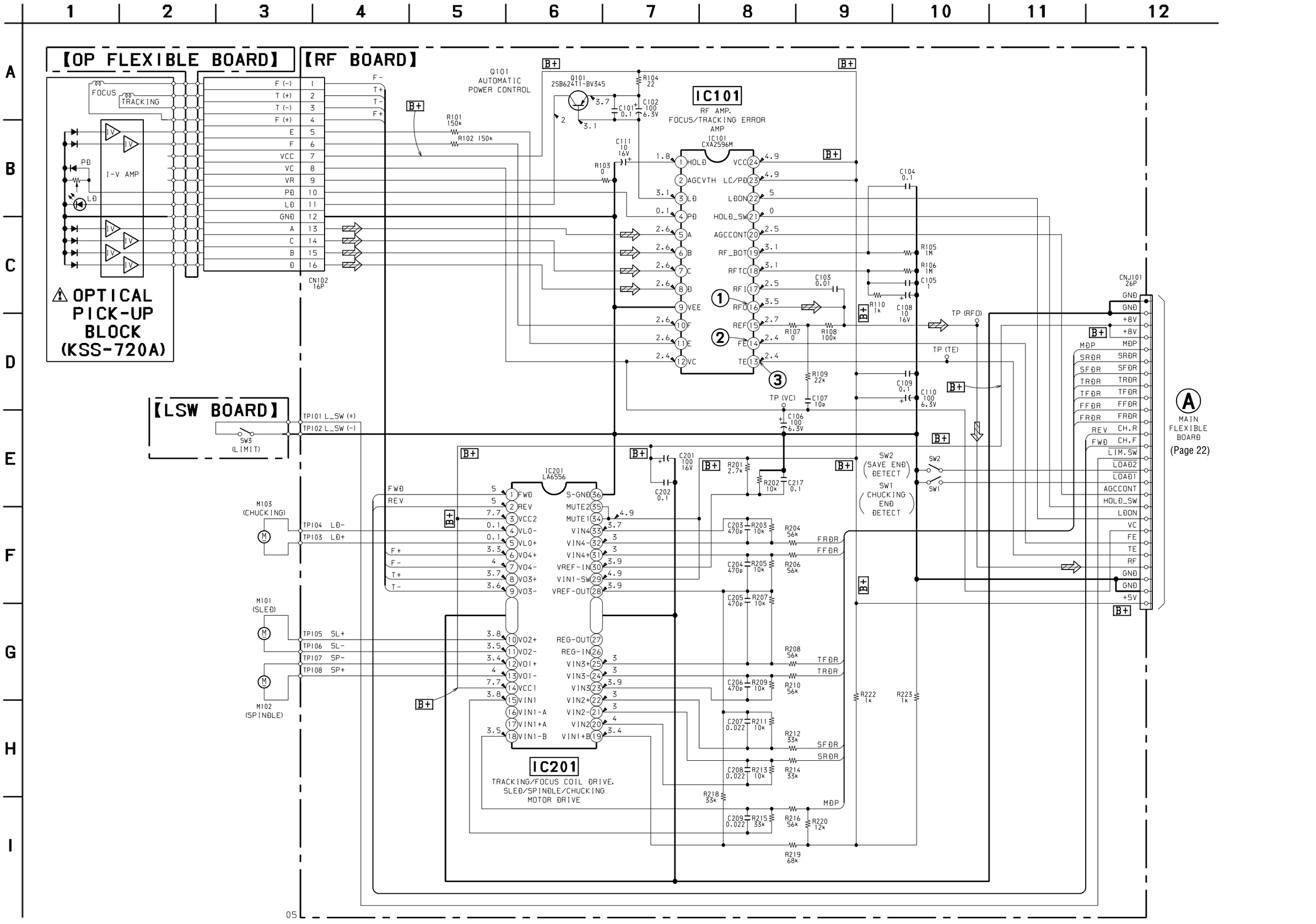
7-4. PRINTED WIRING BOARDS – RF Section – • See page 17 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location
IC101	H-4
IC201	I-3
Q101	F-5



7-5. SCHEMATIC DIAGRAM – RF Section – • See page 25 for for Waveforms. • See page 26 for IC Block Diagrams.

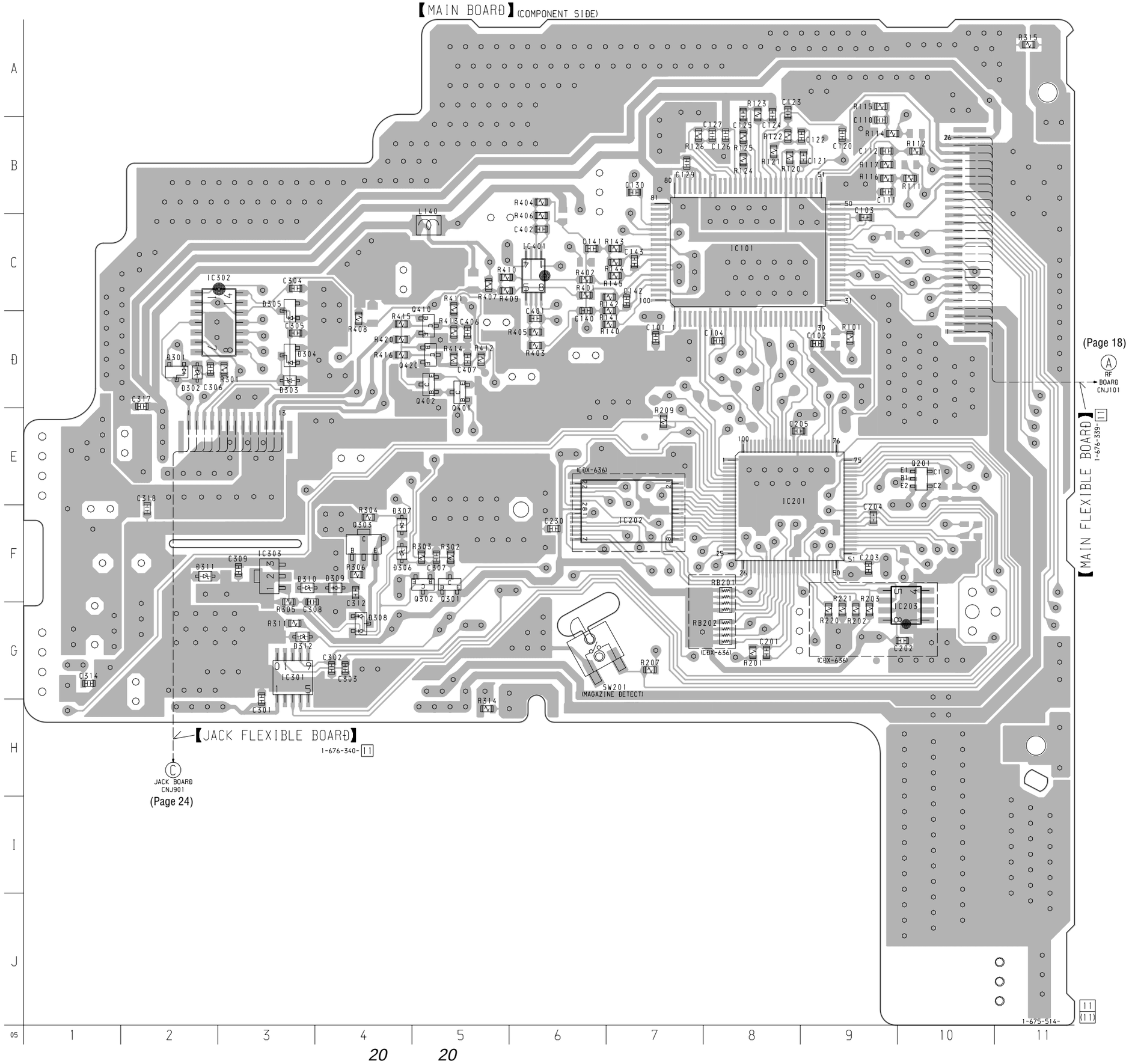


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

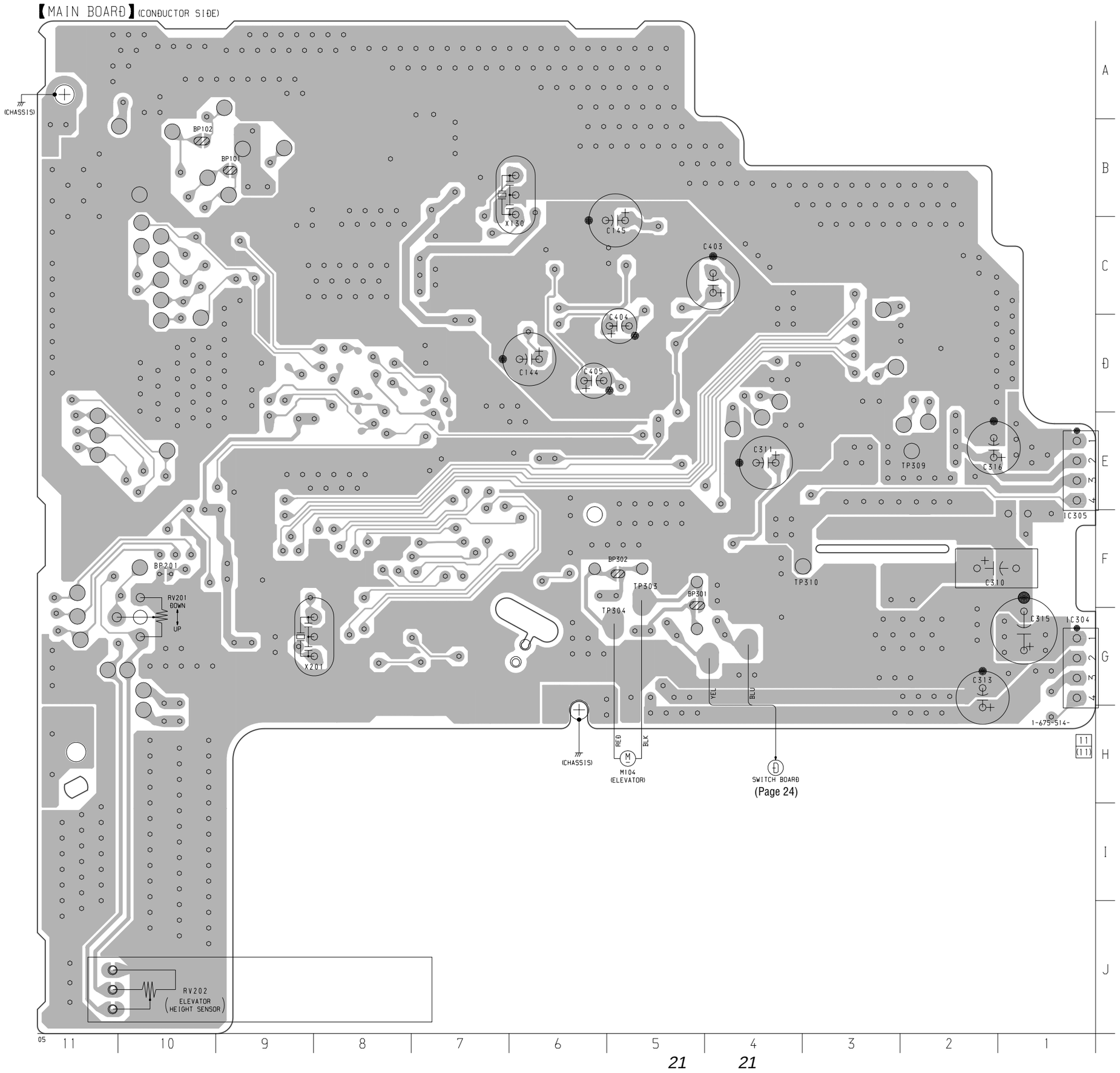
7-6. PRINTED WIRING BOARDS – MAIN Section (1/2) – • See page 17 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D301	D-2
D302	D-2
D303	D-3
D304	D-3
D305	D-3
D306	F-4
D307	F-4
D308	G-4
D309	F-4
D310	F-3
D311	F-2
D312	G-3
IC101	C-8
IC201	F-8
IC202	F-7
IC203	G-10
IC301	G-3
IC302	D-2
IC303	F-3
IC401	C-6
Q201	E-10
Q301	F-5
Q302	F-5
Q303	F-4
Q401	D-5
Q402	D-5
Q410	D-5
Q420	D-5



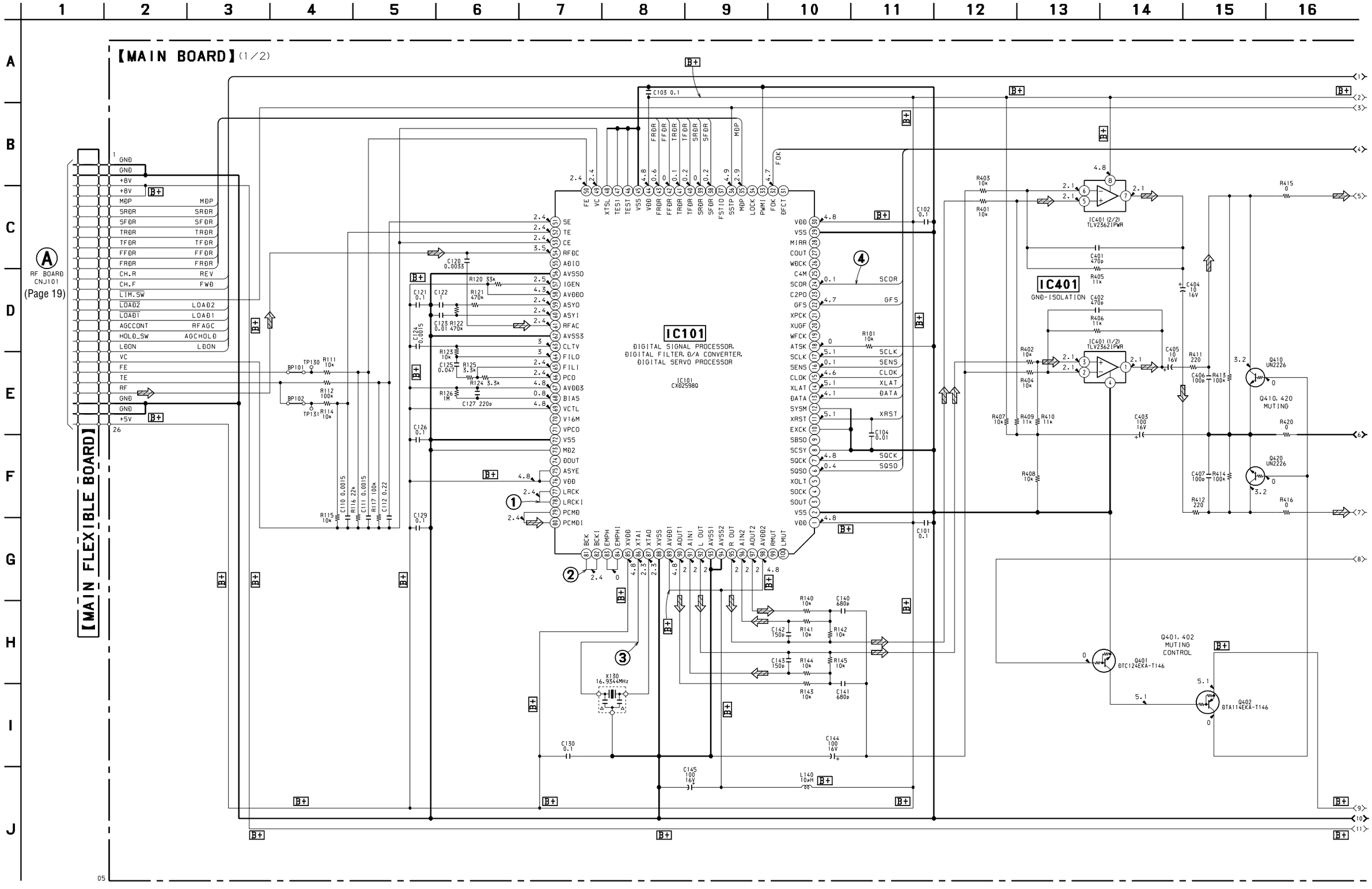
7-7. PRINTED WIRING BOARD – MAIN Section (2/2) – • See page 17 for Circuit Boards Location.



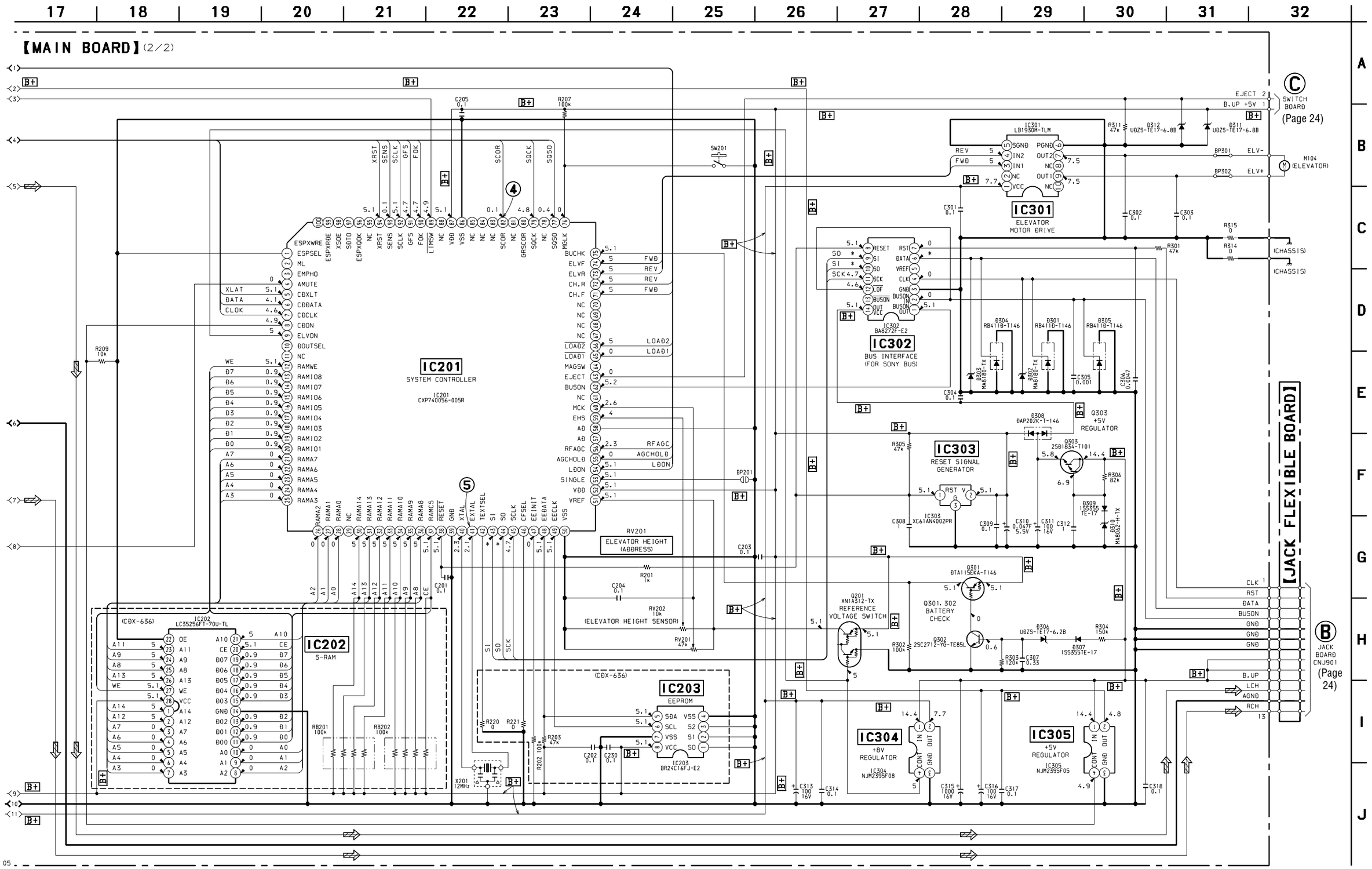
- **Semiconductor Location**

Ref. No.	Location
IC304	G-1
IC305	E-1

7-8. SCHEMATIC DIAGRAM – MAIN Section (1/2) – • See page 25 for Waveforms. • See page 27 for IC Block Diagram.

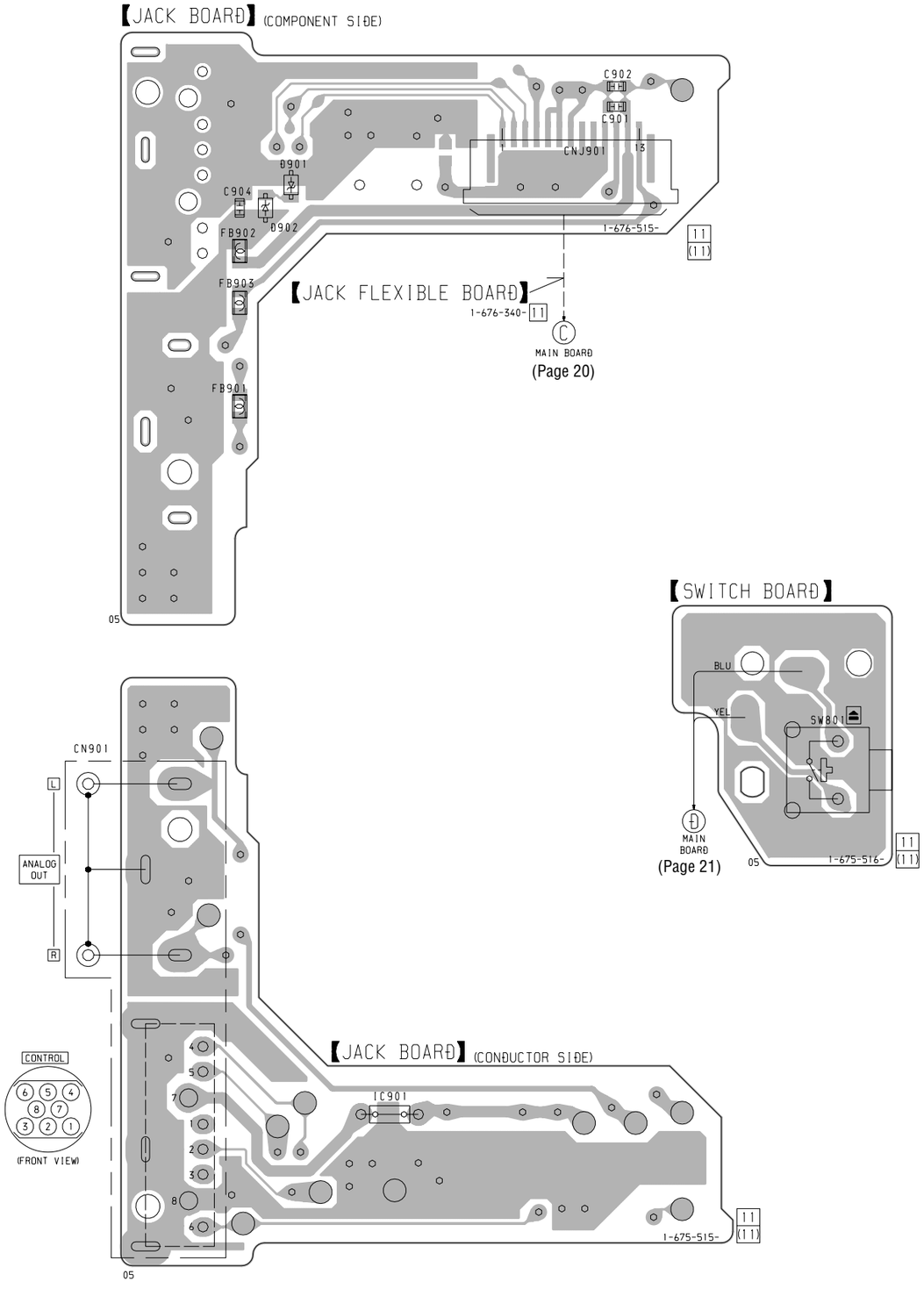


7-9. SCHEMATIC DIAGRAM – MAIN Section (2/2) – • See page 25 for Waveform. • See page 27 for IC Block Diagrams.

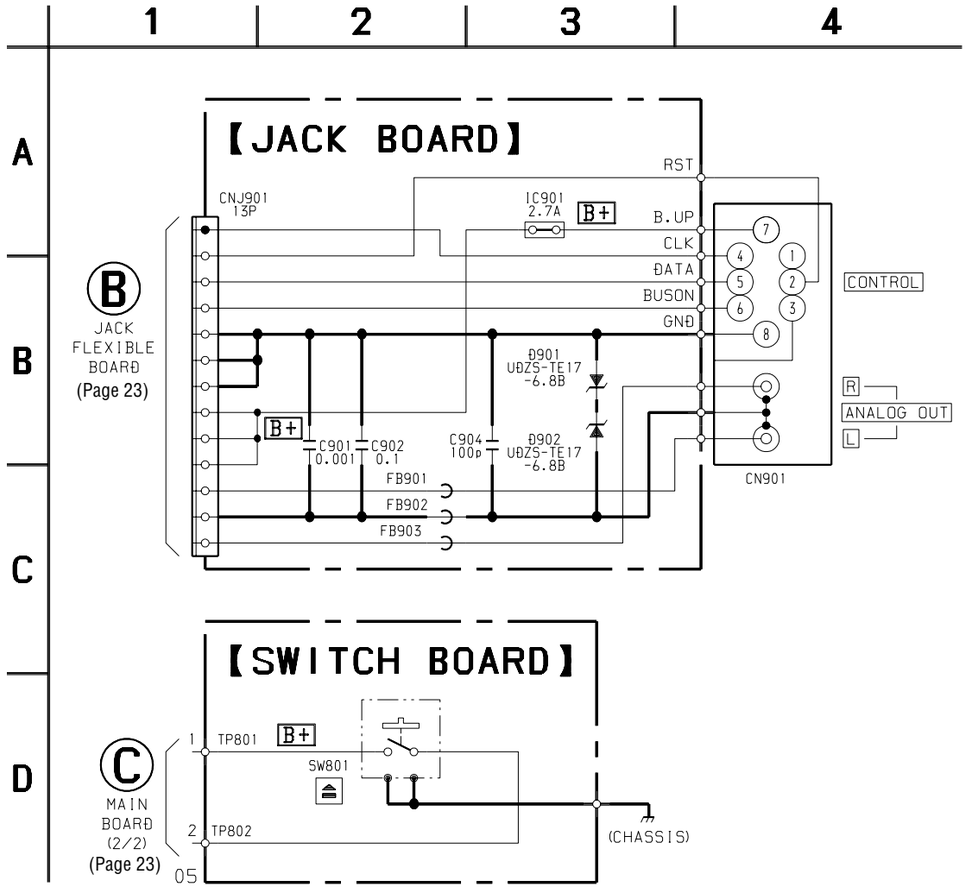


7-10. PRINTED WIRING BOARDS – JACK/SWITCH Section –

• See page 17 for Circuit Boards Location.



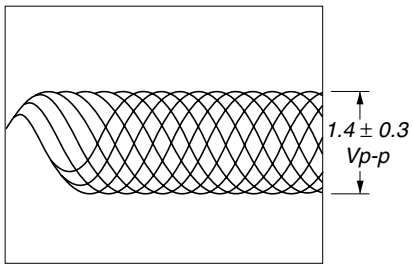
7-11. SCHEMATIC DIAGRAM – JACK/SWITCH Section –



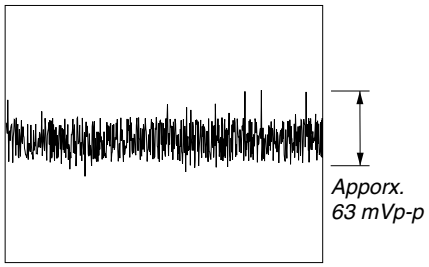
• **Waveforms**

– RF Board –

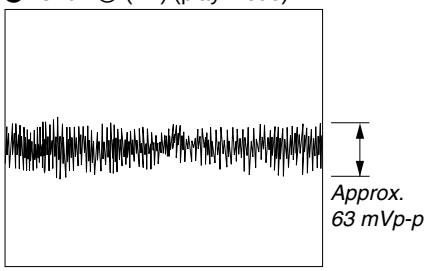
❶ IC101 ⑯ (RFO) (play mode)



❷ IC101 ⑭ (FE) (play mode)

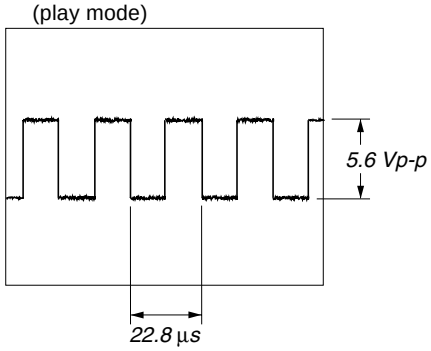


❸ IC101 ⑬ (TE) (play mode)

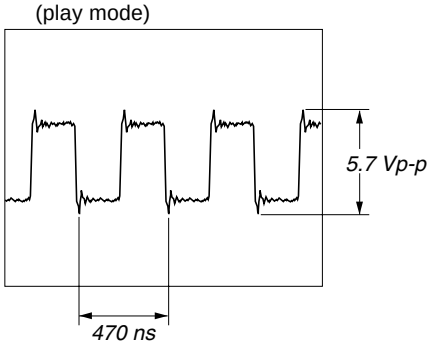


– MAIN Board –

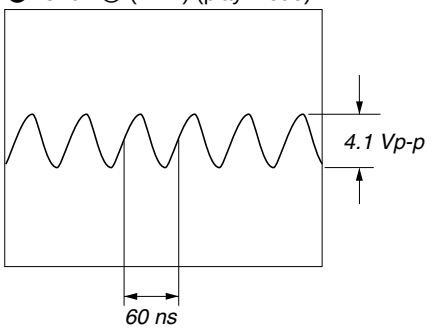
❶ IC101 ㊼ (LRCK), ㊽ (LRCKI) (play mode)



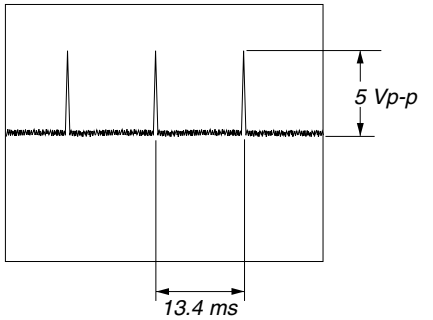
❷ IC101 ㊶ (BCK), ㊷ (BCKI) (play mode)



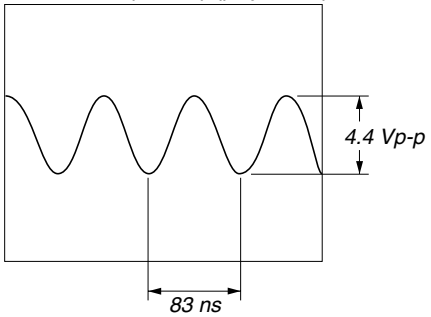
❸ IC101 ㊻ (XTAI) (play mode)



❹ IC101 ㉔ (SCOR), IC201 ㉜ (SCOR) (play mode)

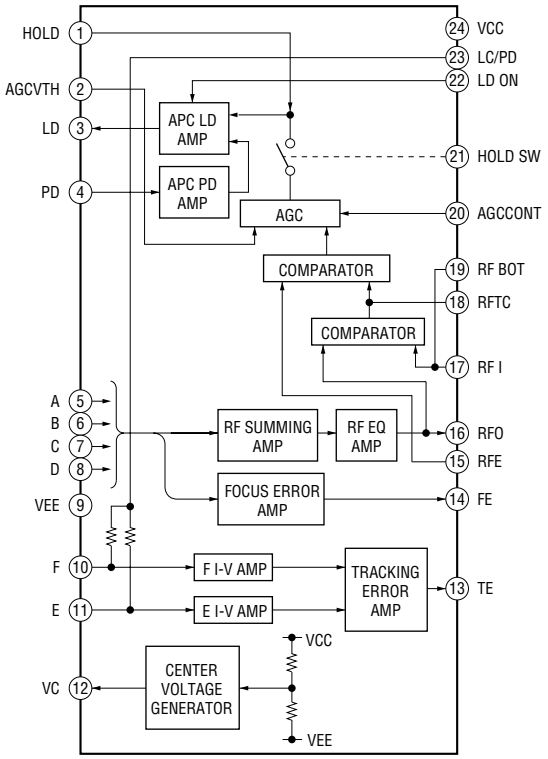


❺ IC201 ㊶ (EXTAL) (play mode)

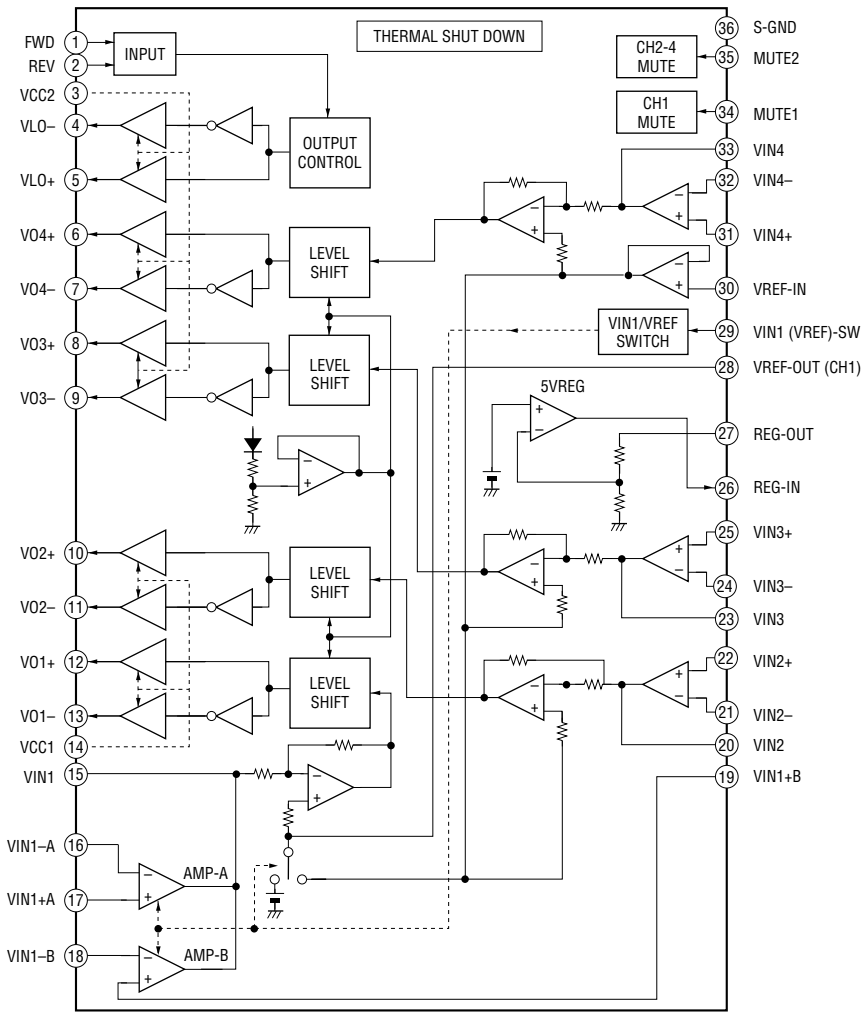


• IC Block Diagrams
– RF Board –

IC101 CXA2596M-T6

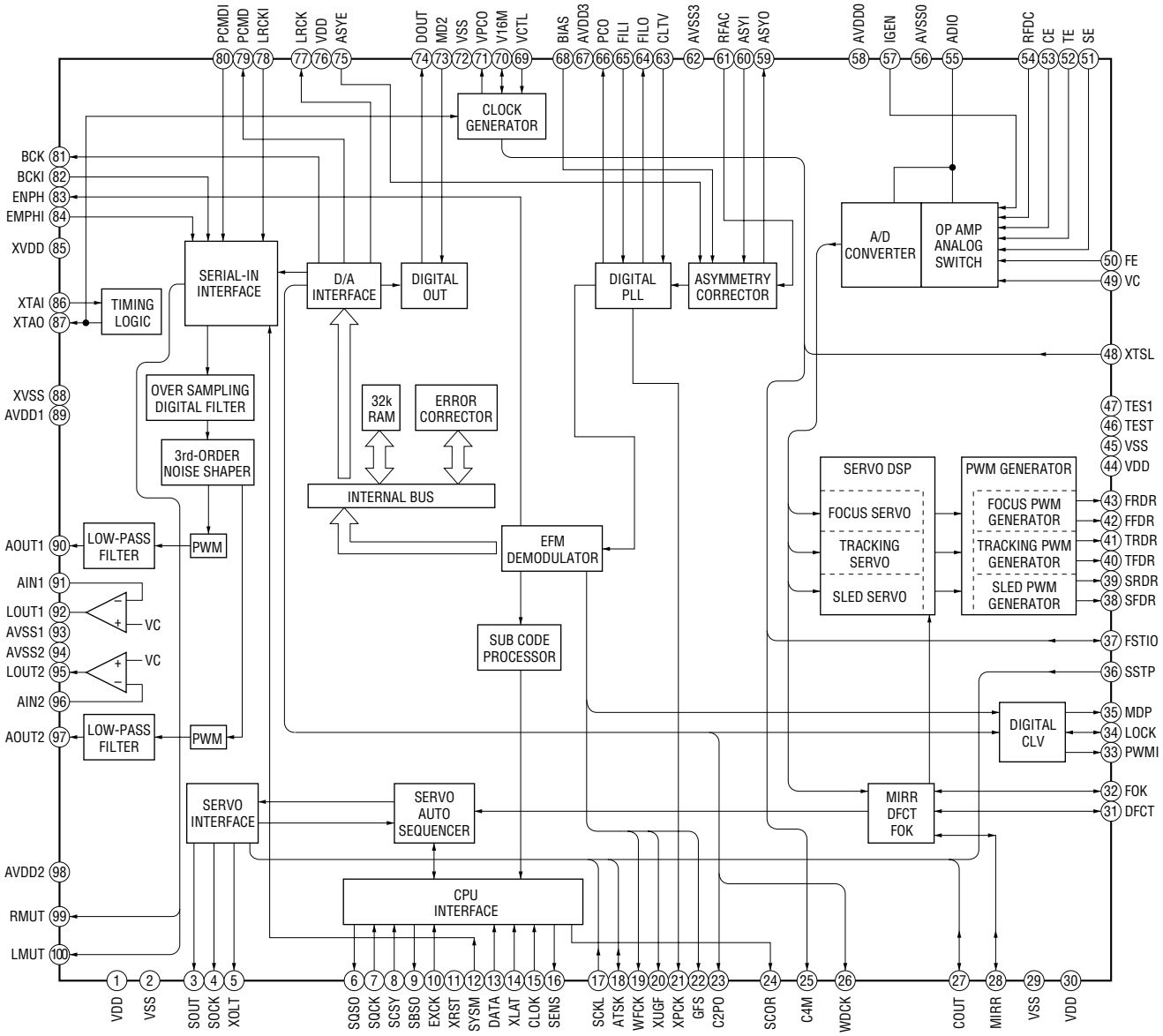


IC201 LA6556

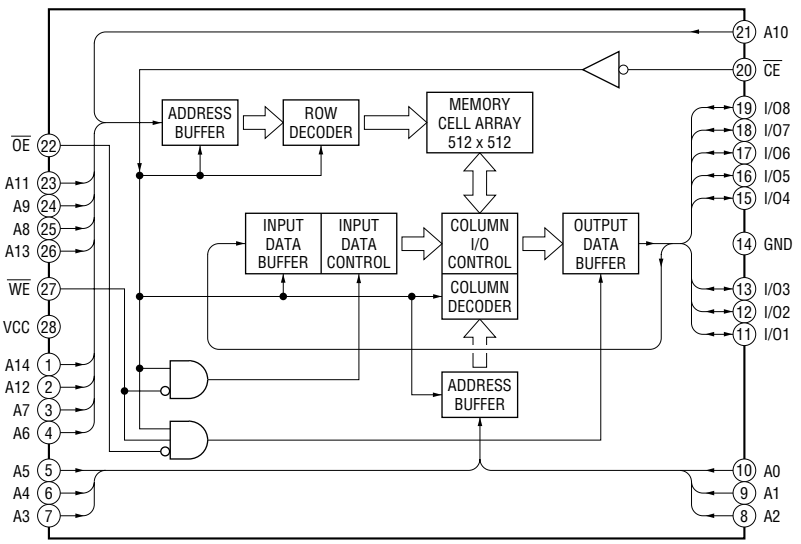


– MAIN Board –

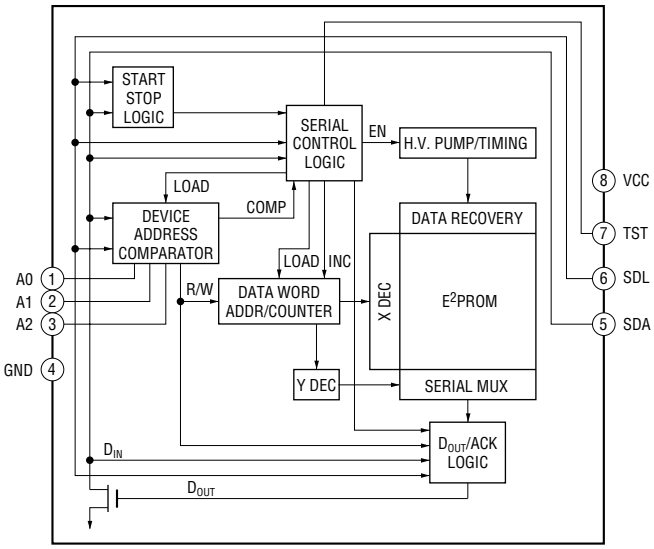
IC101 CXD2598Q



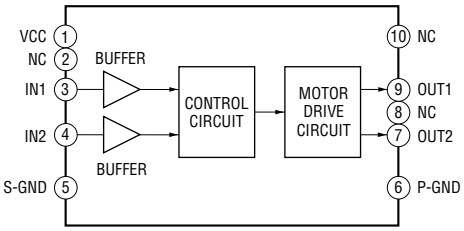
IC202 LC35256FT-70U-TLM (CDX-636)



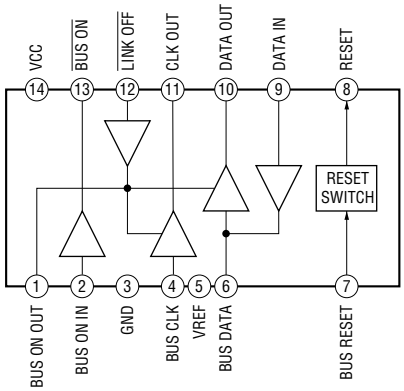
IC203 BR24C16FJ-E2 (CDX-636)



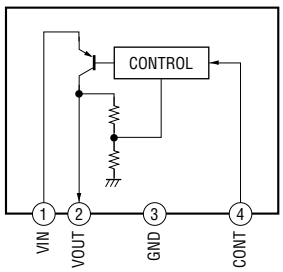
IC301 LB1930M-TLM



IC302 BA8272F-E2



IC304 NJM2395F08
IC305 NJM2395F05



7-12. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC201 CXP740056-005R (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	ESPSEL	I	ESP on/off setting terminal "L": ESP on Not used (open)
2	ML	O	Normal/high speed playback control signal output terminal "L": high speed playback Not used (open)
3	EMPHO	O	Emphasis signal output terminal Not used (open)
4	AMUTE	O	Audio line muting on/off control signal output terminal "H": muting on
5	CDXLT	O	Serial data latch pulse signal output to the CXD2598Q (IC101)
6	CDDATA	O	Serial data output to the CXD2598Q (IC101)
7	CDCLK	O	Serial data transfer clock signal output to the CXD2598Q (IC101)
8	CDON	O	D/A converter and servo section power supply on/off control signal output "H": power on
9	ELVON	O	Mechanism deck section power supply on/off control signal output "H": power on
10	DOUTSEL	I	Digital output on/off control signal input terminal "L": digital output on Not used (open)
11	NC	—	Not used (open)
12	$\overline{\text{RAMWE}}$	O	Data write enable signal output to the S-RAM (IC202) (CDX-636 only) "L": active CDX-601: Not used (open)
13 to 20	RAMIO8 to RAMIO1	I/O	Two-way data bus with the S-RAM (IC202) (CDX-636 only) CDX-601: Not used (open)
21 to 28	RAM7 to RAM0	O	Address signal output to the S-RAM (IC202) (CDX-636 only) CDX-601: Not used (open)
29	NC	—	Not used (open)
30 to 36	RAM14 to RAM8	O	Address signal output to the S-RAM (IC202) (CDX-636 only) CDX-601: Not used (open)
37	$\overline{\text{RAMCE}}$	O	Chip enable signal output to the S-RAM (IC202) (CDX-636 only) "L": active CDX-601: Not used (open)
38	$\overline{\text{RESET}}$	I	System reset signal input from the SONY bus interface (IC302) and reset signal generator (IC303) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
39	GND	—	Ground terminal
40	XTAL	O	Main system clock output terminal (12 MHz)
41	EXTAL	I	Main system clock input terminal (12 MHz)
42	TEXTSEL	I	CD text mode setting terminal "L": CD text on, "H": does not display track name CDX-601: fixed at "H" (open) CDX-636: fixed at "L"
43	SI	I	Serial data input from the SONY bus interface (IC302)
44	SO	O	Serial data output to the SONY bus interface (IC302)
45	SCLK	I	Serial data transfer clock signal input from the SONY bus interface (IC302)
46	CFSEL	I	Custom file on/off setting terminal "L" custom file on CDX-601: fixed at "H" (open) CDX-636: fixed at "L"
47	EEINIT	I	Initialize signal input for the EEPROM (IC203) "H": format CDX-601: not used (open) CDX-636: fixed at "L"
48	EEDATA	I/O	Two-way data bus with the EEPROM (IC203) (CDX-636 only) CDX-601: not used (open)
49	EECLK	O	Serial data transfer clock signal output to the EEPROM (IC203) (CDX-636 only) CDX-601: not used (open)
50	VSS	—	Ground terminal (for A/D converter)
51	AVREF	I	Reference voltage (+5V) input terminal (for A/D converter)
52	VDD	—	Power supply terminal (+5V) (for A/D converter)
53	SINGLE	I	Setting terminal for the single disc/multiple discs mode "L": single mode, "H": multiple discs mode Fixed at "H" in this set (open)
54	LDON	O	The laser automatic power control on/off signal output "H": automatic power control on
55	AGCHOLD	O	RF AGC hold on/off signal output "H": hold
56	RFAGC	I/O	RF AGC level control signal output "L": off, center voltage: 40%, "H": 60%

Pin No.	Pin Name	I/O	Description
57, 58	AD	I	A/D input terminal
59	EHS	I	Elevator height position detect input from the RV202 (elevator height sensor) (A/D input)
60	MCK	I	Input of signal for the fine adjustment (elvator height (address) adjustment; RV201) of elevator position (A/D input)
61	NC	—	Not used (open)
62	BUSON	I	Bus on/off control signal input from the SONY bus interface (IC302) "H" bus on
63	EJECT	I	Eject switch (SW801) input terminal "H" active
64	MAGSW	I	Magazine in/out detect switch input Not used (open)
65	$\overline{\text{LOAD1}}$	I	Chucking end detect switch (SW1) input terminal "L": When completion of the disc chucking operation
66	$\overline{\text{LOAD2}}$	I	Save end detect switch (SW2) input terminal "L": When completion of the disc save operation
67 to 70	NC	—	Not used (open)
71	CH.F	O	Motor drive signal (save direction) output to the chucking motor drive (IC201) "L" active *1
72	CH.R	O	Motor drive signal (chucking direction) output to the chucking motor drive (IC201) "L" active *1
73	ELVR	O	Motor drive signal (elevator down direction) output to the elevator motor drive (IC301) "L" active *2
74	ELVF	O	Motor drive signal (elevator up direction) output to the elevator motor drive (IC301) "L" active *2
75	BUCHK	I	Battery detect signal input terminal "H": battery on
76	MGLK	I	Magazine detect switch (SW201) input "L": magazine is set
77	SQSO	O	Subcode Q/text serial data output to the CXD2598Q (IC101)
78	NC	—	Not used (open)
79	SQCK	O	Subcode Q/text serial data transfer clock signal output to the CXD2598Q (IC101)
80	GRSCOR	I	Subcode sync (S0+S1) detection signal input terminal Not used (open)
81	NC	—	Not used (open)
82	SCOR	I	Subcode sync (S0+S1) detection signal input from the CXD2598Q (IC101)
83	SIRCS	I	SIRCS signal input terminal Not used (open)
84	TEX	I	Sub system clock input terminal Not used (open)
85	TX	O	Sub system clock output terminal Not used (open)
86	VSS	—	Ground terminal
87	VDD	—	Power supply terminal (+5V)
88	NC	—	Not used (open)
89	$\overline{\text{LIMSW}}$	I	Sled limit in detect switch (SW3) input terminal "L": When the optical pick-up is inner position
90	FOK	I	Focus OK signal input from the CXD2598Q (IC101) "H" is input when focus is on ("L": NG)
91	GFS	I	Guard frame sync signal input from the CXD2598Q (IC101) "L": NG, "H": OK
92	SCLK	O	Serial data transfer clock signal output to the CXD2598Q (IC101)
93	SENS	I	Internal status signal (sense signal) input from the CXD2598Q (IC101)
94	XRST	O	System reset signal output to the CXD2598Q (IC101) "L": reset
95	NC	—	Not used (open)
96	ESPXQOK	O	Subcode Q OK pulse signal output terminal "L": active Not used (open)
97	SDTO	I	ESP status signal input terminal Not used (open)
98	XSOE	O	ESP status read enable signal output terminal "L": active Not used (open)
99	ESPXRED	O	ESP read enable signal output terminal "L": active Not used (open)
100	ESPXWRE	O	ESP write enable signal output terminal "L": active Not used (open)

*1 chucking motor (M103) control

Mode / Terminal	STOP	LOAD CHUCKING	SAVE	BRAKE
CH.F (pin ⑦①)	“H”	“H”	“L”	“L”
CH.R (pin ⑦②)	“H”	“L”	“H”	“L”

*2 elevator motor (M104) control

Mode / Terminal	STOP	ELEVATOR UP	ELEVATOR DOWN	BRAKE
ELVF (pin ⑦④)	“H”	“L”	“H”	“L”
ELVR (pin ⑦③)	“H”	“H”	“L”	“L”

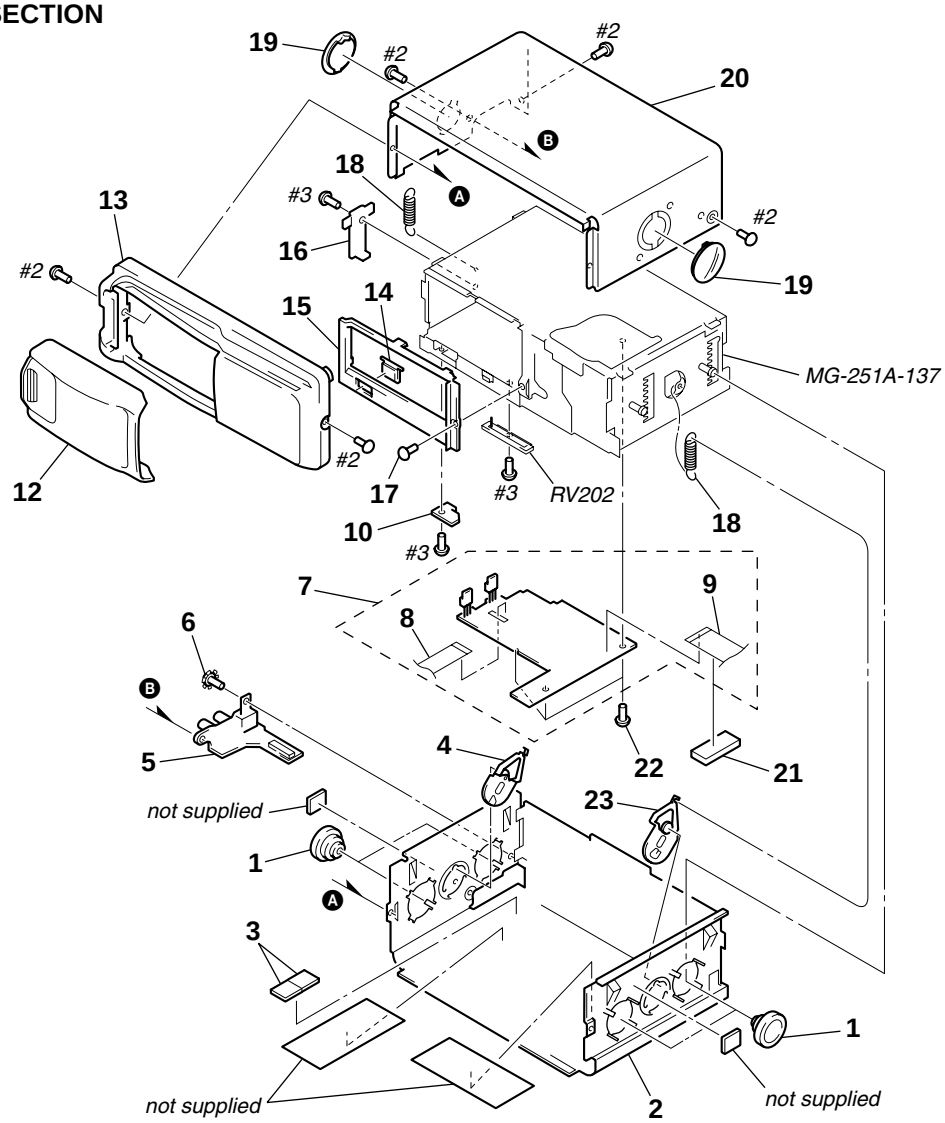
SECTION 8
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

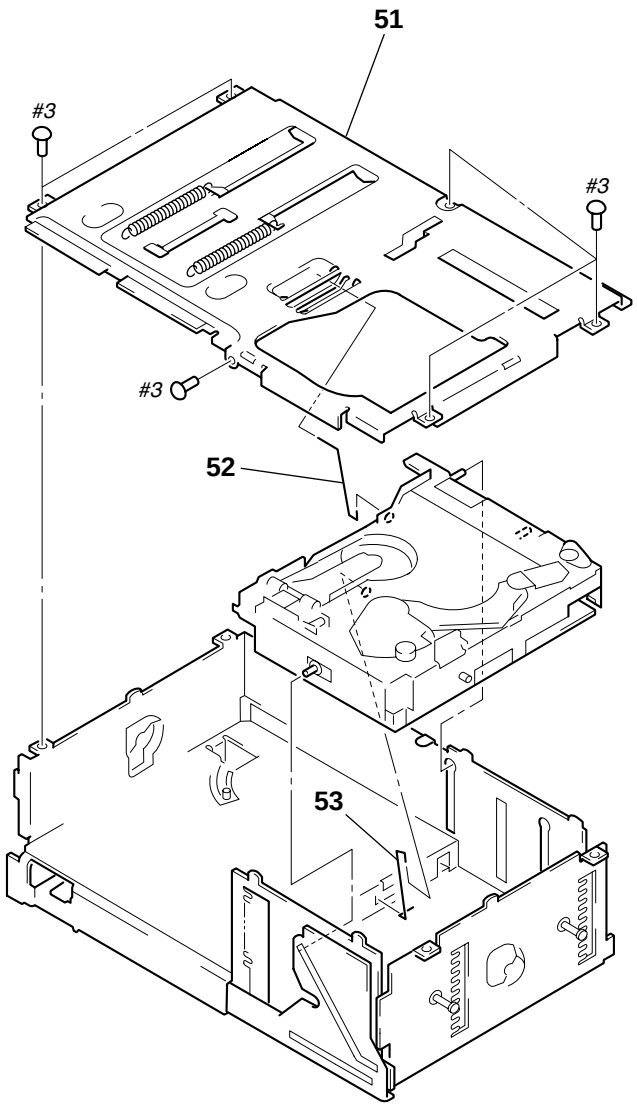
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

(1) COVER SECTION



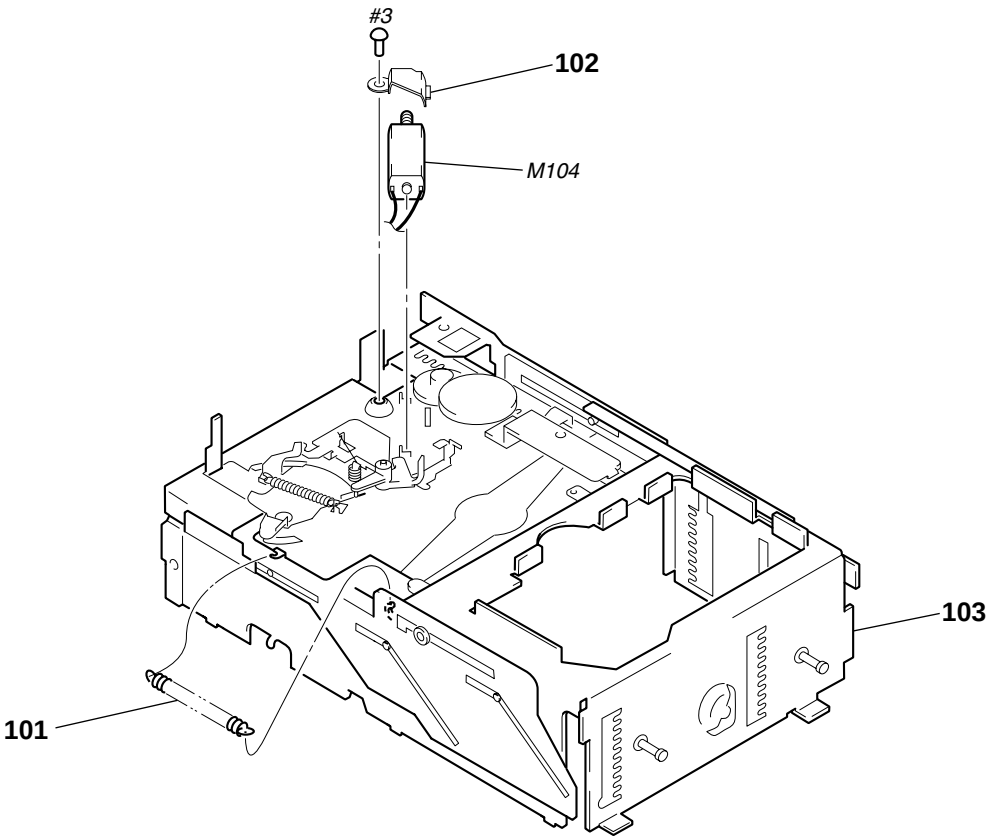
Ref. No.	Part No.	Description	Remark
1	3-022-011-01	DAMPER (250T)	
* 2	3-036-546-41	COVER (LOWER T)	
* 3	3-024-065-01	CUSHION (EJECT-T)	
4	X-3375-357-1	ARM (FLT) ASSY	
* 5	1-675-515-11	JACK BOARD	
6	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
* 7	A-3294-788-A	MAIN BOARD, COMPLETE (CDX-636)	
* 7	A-3294-822-A	MAIN BOARD, COMPLETE (CDX-601)	
8	1-676-340-11	JACK FLEXIBLE BOARD	
9	1-676-339-11	MAIN FLEXIBLE BOARD	
* 10	1-675-516-11	SWITCH BOARD	
12	X-3377-952-1	DOOR (T) ASSY	
13	3-039-239-01	PANEL (T), FRONT (CDX-636)	
13	3-039-239-11	PANEL (T), FRONT (CDX-601)	
14	3-022-007-02	BUTTON (EJT) (⏏)	
15	3-041-218-11	ESCUTCHEON (T)	
* 16	3-022-012-01	HEAT SINK (T)	
17	3-042-244-11	SCREW (T)	
18	3-038-166-01	SPRING (FL), TENSION COIL	
19	3-010-101-01	LEVER (FLT)	
* 20	3-022-008-41	COVER (UPPER T)	
21	3-024-067-01	CUSHION (T), BATTERY	
22	3-935-636-11	SCREW (FP)	
23	X-3375-360-2	ARM (FRT) ASSY	
RV202	1-227-137-11	RES, VAR, SLIDE 10K (ELEVATOR HEIGHT SENSOR)	

(2) MECHANISM DECK SECTION-1 (MG-251A-137)



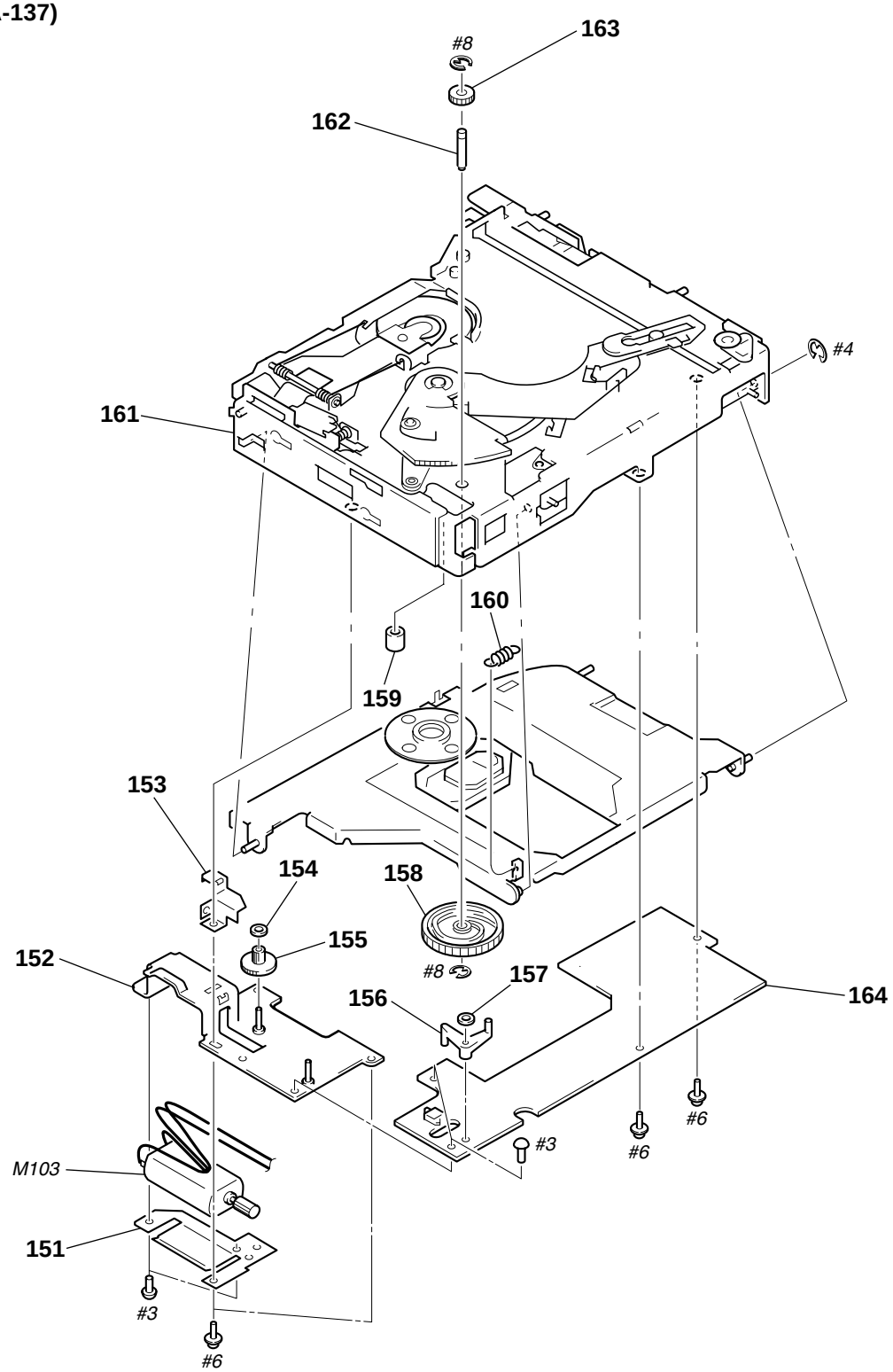
Ref. No.	Part No.	Description	Remark
51	X-3378-091-1	CHASSIS (U. S) SUB ASSY	
52	3-024-161-01	SPRING (SUT)	
53	3-011-997-01	SPRING (STOPPER. LOWER)	

(3) MECHANISM DECK SECTION-2 (MG-251A-137)



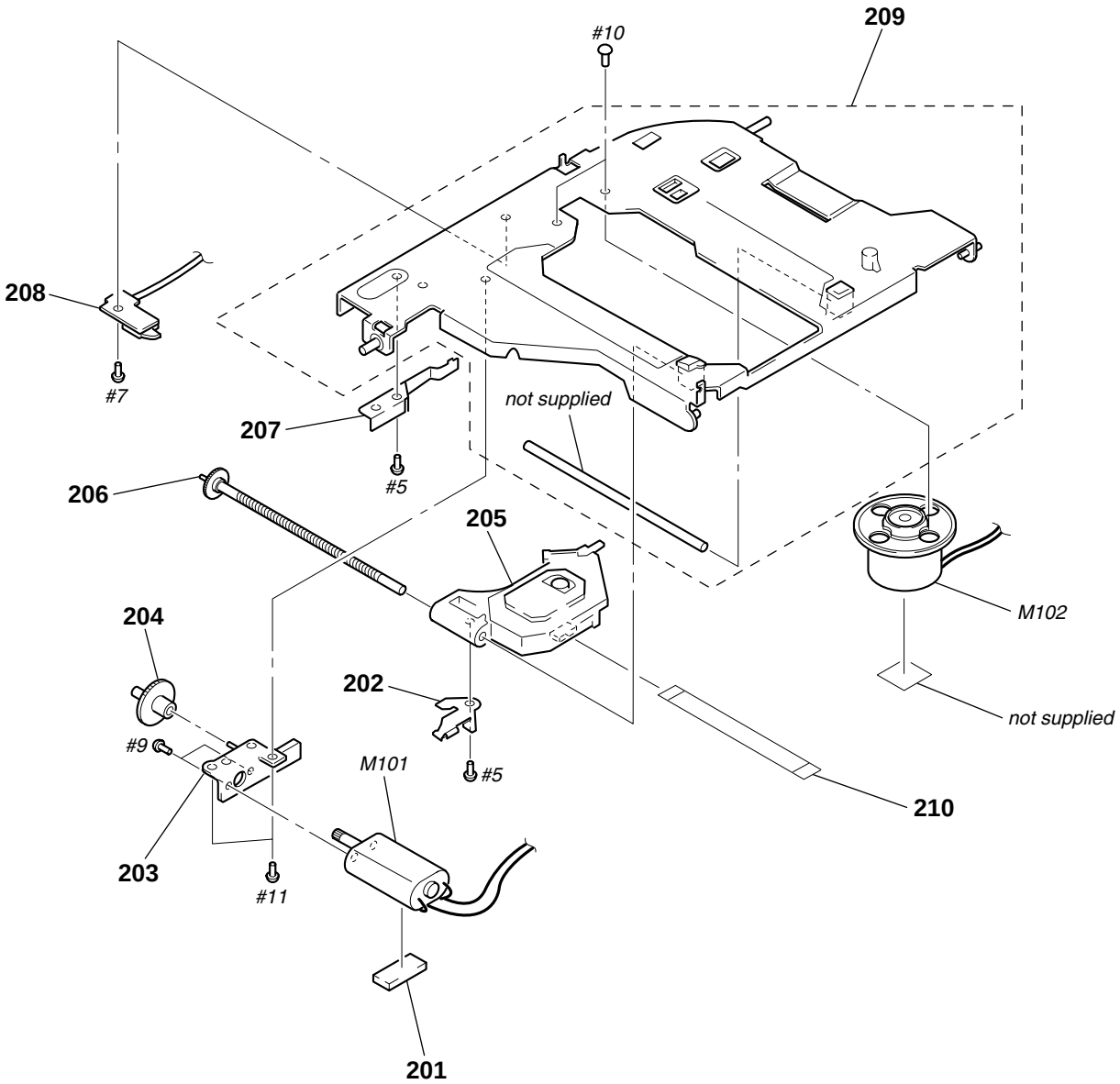
Ref. No.	Part No.	Description	Remark
101	3-024-170-01	SPRING (SB), TENSION	
* 102	3-040-790-01	BRACKET (EVM. S)	
103	X-3378-092-1	CHASSIS (D. S) SUB ASSY	
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)	

(4) MECHANISM DECK SECTION-3 (MG-251A-137)



Ref. No.	Part No.	Description	Remark
* 151	3-024-150-01	RETAINER (CHM)	
* 152	X-3378-080-1	BRACKET (CHM. D) ASSY	
153	3-010-270-01	COVER (CHM)	
154	3-321-813-01	WASHER, COTTER POLYETHYLENE	
155	3-017-139-01	GEAR (NWL)	
156	3-010-255-02	ARM (NSW)	
157	3-573-936-00	STOPPER, REEL	
158	X-3373-552-1	GEAR (LOAD 1) ASSY	
159	3-010-252-01	ROLLER (CRE)	
160	3-010-268-01	SPRING (DH), TENSION	
* 161	A-3290-194-K	MAIN ASSY, CHASSIS (EVY)	
162	3-010-254-01	SHAFT (ROTARY PREVENTION C)	
163	3-010-253-01	GEAR (LOMINI)	
* 164	A-3326-000-A	RF BOARD, COMPLETE	
M103	A-3301-123-A	ELJ MOTOR ASSY (CHUCKING)	

(5) MECHANISM DECK SECTION-4 (MG-251A-137)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
201	3-911-215-02	SHEET (LEAD RETAINER)	
202	3-025-743-01	SPRING (FEED), LEAF	
203	X-3378-101-1	HOLDER (SLED. S) ASSY	
204	3-931-832-01	GEAR (SL MIDWAY)	
⚠205	8-820-103-03	OPTICAL PICK-UP KSS-720A/K1RP	
206	A-3291-669-A	SHAFT (FEED) ASSY	
207	3-010-263-01	DETENT (SHAFT THRUST)	
* 208	1-676-524-11	LSW BOARD	
209	A-3301-954-A	BASE (OPT. S) (J) ASSY	
210	1-676-341-11	OP FLEXIBLE BOARD	
M101	A-3315-151-A	SLED MOTOR ASSY (251)	
M102	A-3301-998-A	SPINDLE MOTOR (S) SUB ASSY	

SECTION 9
ELECTRICAL PARTS LIST

JACK | LSW | MAIN

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-675-515-11	JACK BOARD			
		**********			
		< CAPACITOR >			
C901	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C902	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C904	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN901	1-779-077-51	PLUG, CONNECTOR (CONTROL, ANALOG OUT)			
CNJ901	1-778-775-21	CONNECTOR, FPC 13P			
		< DIODE >			
D901	8-719-069-57	DIODE UDZS-TE17-6.8B			
D902	8-719-069-57	DIODE UDZS-TE17-6.8B			
		< FERRITE BEAD >			
FB901	1-500-445-21	FERRITE	0uH		
FB902	1-500-445-21	FERRITE	0uH		
FB903	1-500-445-21	FERRITE	0uH		
		< IC LINK >			
IC901	1-532-686-21	LINK, IC			
**********					
*	1-676-524-11	LSW BOARD			
		**********			
		< SWITCH >			
SW3	1-529-565-11	SWITCH, PUSH (1 KEY) (LIMIT)			
**********					
*	A-3294-788-A	MAIN BOARD, COMPLETE (CDX-636)			
*	A-3294-822-A	MAIN BOARD, COMPLETE (CDX-601)			
		**********			
	1-676-339-11	MAIN FLEXIBLE BOARD			
	1-676-340-11	JACK FLEXIBLE BOARD			
		< CAPACITOR >			
C101	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C102	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C103	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C104	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C110	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C111	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C112	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C120	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C121	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C122	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C123	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C124	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C125	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C126	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C127	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C129	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C130	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C140	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C141	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C142	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C143	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C144	1-126-382-11	ELECT	100uF	20%	16V
C145	1-126-382-11	ELECT	100uF	20%	16V
C201	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C202	1-164-156-11	CERAMIC CHIP	0.1uF		25V (CDX-636)
C203	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C204	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C205	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C230	1-164-156-11	CERAMIC CHIP	0.1uF		25V (CDX-636)
C301	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C302	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C303	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C304	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C305	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C306	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C307	1-165-112-11	CERAMIC CHIP	0.33uF	20%	10V
C308	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C309	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C310	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C311	1-126-382-11	ELECT	100uF	20%	16V
C312	1-115-156-11	CERAMIC CHIP	1uF		10V
C313	1-126-382-11	ELECT	100uF	20%	16V
C314	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C315	1-115-466-00	ELECT	1000uF	20%	16V
C316	1-126-382-11	ELECT	100uF	20%	16V
C317	1-164-156-11	CERAMIC CHIP	0.1uF		25V

MAIN

Ref. No.	Part No.	Description			Remark
C318	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C401	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C402	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C403	1-126-382-11	ELECT	100uF	20%	16V
C404	1-126-157-11	ELECT	10uF	20%	16V
C405	1-126-157-11	ELECT	10uF	20%	16V
C406	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C407	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< DIODE >			
D301	8-719-975-40	DIODE	RB411D-T146		
D302	8-719-017-94	DIODE	MA8180-TX		
D303	8-719-017-94	DIODE	MA8180-TX		
D304	8-719-975-40	DIODE	RB411D-T146		
D305	8-719-975-40	DIODE	RB411D-T146		
D306	8-719-069-56	DIODE	UDZS-TE17-6.2B		
D307	8-719-988-61	DIODE	1SS355TE-17		
D308	8-719-914-44	DIODE	DAP202K-T-146		
D309	8-719-988-61	DIODE	1SS355TE-17		
D310	8-719-422-67	DIODE	MA8062-H-TX		
D311	8-719-069-57	DIODE	UDZS-TE17-6.8B		
D312	8-719-069-57	DIODE	UDZS-TE17-6.8B		
		< IC >			
IC101	8-752-392-04	IC	CXD2598Q		
IC201	8-752-903-01	IC	CXP740056-005R		
IC202	8-759-662-12	IC	LC35256FT-70U-TLM (CDX-636)		
IC203	8-759-660-38	IC	BR24C16FJ-E2 (CDX-636)		
IC301	8-759-527-33	IC	LB1930M-TLM		
IC302	8-759-444-86	IC	BA8272F-E2		
IC303	8-759-363-81	IC	XC61AN4002PR		
IC304	8-759-655-30	IC	NJM2395F08		
IC305	8-759-655-29	IC	NJM2395F05		
IC401	8-759-662-11	IC	TLV2362IPWR		
		< COIL >			
L140	1-412-058-11	INDUCTOR CHIP	10uH		
		< TRANSISTOR >			
Q201	8-729-020-67	TRANSISTOR	XN1A312-TX		
Q301	8-729-028-62	TRANSISTOR	DTA115EKA-T146		
Q302	8-729-230-49	TRANSISTOR	2SC2712-YG-TE85L		
Q303	8-729-921-12	TRANSISTOR	2SD1834-T101		
Q401	8-729-901-00	TRANSISTOR	DTC124EKA-T146		
Q402	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q410	8-729-015-39	TRANSISTOR	UN2226- (TX)		
Q420	8-729-015-39	TRANSISTOR	UN2226- (TX)		
		< RESISTOR >			
R101	1-216-833-11	RES-CHIP	10K	5%	1/16W
R111	1-216-833-11	RES-CHIP	10K	5%	1/16W
R112	1-216-845-11	METAL CHIP	100K	5%	1/16W
R114	1-216-833-11	RES-CHIP	10K	5%	1/16W
R115	1-216-833-11	RES-CHIP	10K	5%	1/16W
R116	1-216-837-11	METAL CHIP	22K	5%	1/16W
R117	1-216-845-11	METAL CHIP	100K	5%	1/16W
R120	1-216-839-11	METAL CHIP	33K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R121	1-216-853-11	METAL CHIP	470K	5%	1/16W
R122	1-216-853-11	METAL CHIP	470K	5%	1/16W
R123	1-216-833-11	RES-CHIP	10K	5%	1/16W
R124	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R125	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R126	1-216-857-11	METAL CHIP	1M	5%	1/16W
R140	1-218-871-11	RES-CHIP	10K	2%	1/16W
R141	1-218-871-11	RES-CHIP	10K	2%	1/16W
R142	1-218-871-11	RES-CHIP	10K	2%	1/16W
R143	1-218-871-11	RES-CHIP	10K	2%	1/16W
R144	1-218-871-11	RES-CHIP	10K	2%	1/16W
R145	1-218-871-11	RES-CHIP	10K	2%	1/16W
R201	1-216-821-11	METAL CHIP	1K	5%	1/16W
R202	1-216-845-11	METAL CHIP	100K	5%	1/16W (CDX-636)
R203	1-216-841-11	METAL CHIP	47K	5%	1/16W (CDX-636)
R207	1-216-845-11	METAL CHIP	100K	5%	1/16W
R209	1-216-833-11	RES-CHIP	10K	5%	1/16W
R220	1-216-864-11	METAL CHIP	0	5%	1/16W (CDX-636)
R221	1-216-864-11	METAL CHIP	0	5%	1/16W (CDX-636)
R301	1-216-841-11	METAL CHIP	47K	5%	1/16W
R302	1-216-845-11	METAL CHIP	100K	5%	1/16W
R303	1-216-846-11	METAL CHIP	120K	5%	1/16W
R304	1-216-847-11	METAL CHIP	150K	5%	1/16W
R305	1-216-841-11	METAL CHIP	47K	5%	1/16W
R306	1-216-844-11	METAL CHIP	82K	5%	1/16W
R311	1-216-841-11	METAL CHIP	47K	5%	1/16W
R314	1-216-864-11	METAL CHIP	0	5%	1/16W
R315	1-216-864-11	METAL CHIP	0	5%	1/16W
R401	1-218-871-11	RES-CHIP	10K	2%	1/16W
R402	1-218-871-11	RES-CHIP	10K	2%	1/16W
R403	1-218-871-11	RES-CHIP	10K	2%	1/16W
R404	1-218-871-11	RES-CHIP	10K	2%	1/16W
R405	1-219-315-21	RES-CHIP	11K	2%	1/16W
R406	1-219-315-21	RES-CHIP	11K	2%	1/16W
R407	1-216-833-11	RES-CHIP	10K	5%	1/16W
R408	1-216-833-11	RES-CHIP	10K	5%	1/16W
R409	1-219-315-21	RES-CHIP	11K	2%	1/16W
R410	1-219-315-21	RES-CHIP	11K	2%	1/16W
R411	1-216-813-11	METAL CHIP	220	5%	1/16W
R412	1-216-813-11	METAL CHIP	220	5%	1/16W
R413	1-216-845-11	METAL CHIP	100K	5%	1/16W
R414	1-216-845-11	METAL CHIP	100K	5%	1/16W
R415	1-216-864-11	METAL CHIP	0	5%	1/16W
R416	1-216-864-11	METAL CHIP	0	5%	1/16W
R420	1-216-864-11	METAL CHIP	0	5%	1/16W
		< COMPOSITION CIRCUIT BLOCK >			
RB201	1-233-810-21	RES, NETWORK 100K (3216) (CDX-636)			
RB202	1-233-810-21	RES, NETWORK 100K (3216) (CDX-636)			
		< VARIABLE RESISTOR >			
RV201	1-223-834-11	RES, ADJ, CARBON 47K			

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
SW201	1-572-688-11	SWITCH, PUSH (1 KEY) (MAGAZINE DETECT)			
		< VIBRATOR >			
X130	1-760-307-11	VIBRATOR, CERAMIC (16.9344MHz)			
X201	1-579-126-11	VIBRATOR, CERAMIC (12MHz)			
**********					
*	A-3326-000-A	RF BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C102	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C103	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C104	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C105	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C106	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C107	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C108	1-124-779-00	ELECT CHIP	10uF	20%	16V
C109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C110	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C111	1-124-779-00	ELECT CHIP	10uF	20%	16V
C201	1-117-681-11	ELECT CHIP	100uF	20%	16V
C202	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C203	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C204	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C205	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C206	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C207	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C208	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C209	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C217	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN102	1-778-303-21	CONNECTOR, FPC (ZIF) 16P			
CNJ101	1-778-777-21	CONNECTOR, FPC 26P			
		< IC >			
IC101	8-752-095-36	IC CXA2596M-T6			
IC201	8-759-653-67	IC LA6556			
		< TRANSISTOR >			
Q101	8-729-141-48	TRANSISTOR	2SB624T1-BV345		
		< RESISTOR >			
R101	1-216-847-11	METAL CHIP	150K	5%	1/16W
R102	1-216-847-11	METAL CHIP	150K	5%	1/16W
R103	1-216-864-11	METAL CHIP	0	5%	1/16W
R104	1-216-158-00	RES-CHIP	22	5%	1/8W
R105	1-216-857-11	METAL CHIP	1M	5%	1/16W
R106	1-216-857-11	METAL CHIP	1M	5%	1/16W
R107	1-216-864-11	METAL CHIP	0	5%	1/16W
R108	1-216-845-11	METAL CHIP	100K	5%	1/16W
R109	1-216-837-11	METAL CHIP	22K	5%	1/16W
R110	1-216-821-11	METAL CHIP	1K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R201	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R202	1-216-833-11	RES-CHIP	10K	5%	1/16W
R203	1-216-833-11	RES-CHIP	10K	5%	1/16W
R204	1-216-842-11	METAL CHIP	56K	5%	1/16W
R205	1-216-833-11	RES-CHIP	10K	5%	1/16W
R206	1-216-842-11	METAL CHIP	56K	5%	1/16W
R207	1-216-833-11	RES-CHIP	10K	5%	1/16W
R208	1-216-842-11	METAL CHIP	56K	5%	1/16W
R209	1-216-833-11	RES-CHIP	10K	5%	1/16W
R210	1-216-842-11	METAL CHIP	56K	5%	1/16W
R211	1-216-833-11	RES-CHIP	10K	5%	1/16W
R212	1-216-839-11	METAL CHIP	33K	5%	1/16W
R213	1-216-833-11	RES-CHIP	10K	5%	1/16W
R214	1-216-839-11	METAL CHIP	33K	5%	1/16W
R215	1-216-839-11	METAL CHIP	33K	5%	1/16W
R216	1-216-842-11	METAL CHIP	56K	5%	1/16W
R218	1-216-839-11	METAL CHIP	33K	5%	1/16W
R219	1-216-843-11	METAL CHIP	68K	5%	1/16W
R220	1-216-834-11	METAL CHIP	12K	5%	1/16W
R222	1-216-821-11	METAL CHIP	1K	5%	1/16W
R223	1-216-821-11	METAL CHIP	1K	5%	1/16W
		< SWITCH >			
SW1	1-529-566-21	SWITCH, PUSH (1 KEY) (CHUCKING END DETECT)			
SW2	1-529-566-21	SWITCH, PUSH (1 KEY) (SAVE END DETECT)			
**********					
*	1-675-516-11	SWITCH BOARD			
		**********			
		< SWITCH >			
SW801	1-571-532-21	SWITCH, TACTIL (⏏)			
**********					
		MISCELLANEOUS			
		**********			
⚠205	8-820-103-03	OPTICAL PICK-UP KSS-720A/K1RP			
210	1-676-341-11	OP FLEXIBLE BOARD			
M101	A-3315-151-A	SLED MOTOR ASSY (251)			
M102	A-3301-998-A	SPINDLE MOTOR (S) SUB ASSY			
M103	A-3301-123-A	ELJ MOTOR ASSY (CHUCKING)			
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)			
RV202	1-227-137-11	RES, VAR, SLIDE 10K (ELEVATOR HEIGHT SENSOR)			
**********					
		**********			
		HARDWARE LIST			
		**********			
#2	7-685-792-09	SCREW +PTT 2.6X6 (S)			
#3	7-685-781-09	SCREW +PTT 2X4 (S)			
#4	7-624-104-04	STOP RING 2.0, TYPE -E			
#5	7-627-554-07	SCREW, PRECISION +P 2X2.2			
#6	7-628-253-00	SCREW +PS 2X4			
#7	7-627-553-27	SCREW, PRECISION +P 2X2.5			
#8	7-624-102-04	STOP RING 1.5, TYPE -E			
#9	7-627-850-28	SCREW, PRECISION +P 1.4X3			
#10	7-627-000-00	SCREW, PRECISION +P 1.7X2.2 TYPE 3			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
#11	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3	

****

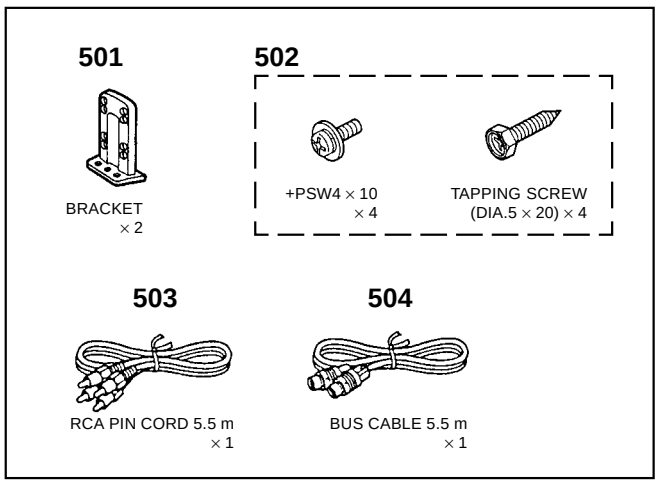
ACCESSORIES & PACKING MATERIALS
****

	3-867-910-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (US, Canadian, E)
	3-867-910-21	MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE) (AEP, UK)
	3-867-910-31	MANUAL, INSTRUCTION (FRENCH, GERMAN, DUTCH, ITALIAN) (AEP, UK)
	3-867-910-41	MANUAL, INSTRUCTION (ENGLISH, GERMAN, POLISH, GREEK, RUSSIAN) (German)
	A-3291-950-C	MAGAZINE (250T) ASSY

****

PARTS FOR INSTALLATION AND CONNECTIONS
****

	501	3-040-583-21	BRACKET
*	502	X-3369-824-1	SCREW ASSY
	503	1-590-874-11	CORD, CONNECTION (RCA PIN CORD 5.5m)
	504	1-590-519-21	CORD (WITH CONNECTOR) (BUS CABLE 5.5m)



Sony Corporation
Mobile Electronics Division Company

2000A0574-1
Printed in Japan © 2000. 1
Published by General Engineering Dept.